

NETAFIM DIGITAL FARMING

COMPLETE OFFERING

CATALOG 2017



**MONITORING AND MANAGEMENT SYSTEMS,
CONTROLLERS, AND DOSING SYSTEMS
FOR OPTIMIZED IRRIGATION**

TABLE OF CONTENTS

MONITORING & MANAGEMENT SYSTEMS	6
Weather Station	8
Irrrometer Tensiometer	10
NetaSense Soil Moisture Sensor	12
Delta T Soil Moisture Sensor	14
NetaCap Probe Sensor	16
uManage™	18
CONTROLLERS	22
NMC-PRO	24
NMC-Junior PRO	26
NMC-PRO Climate	30
NMC-PRO DC	32
NMC Air™	34
VALVE CONTROL SYSTEMS	36
RadioNet	38
SingleNet	40
DOSING SYSTEMS	42
FertiOne™	44
NetaJet™ 4G	46
FertiKit™ 3G	52
NetaFlex™ 3G	54
SPARE PARTS	56
Dosing Systems	56
Controllers	58

ABOUT NETAFIM

NETAFIM IS THE GLOBAL LEADER IN SMART IRRIGATION SOLUTIONS FOR A SUSTAINABLE FUTURE.



29
subsidiaries



17
manufacturing
plants



4,300
employees



>110
countries

Founded in 1965, Netafim pioneered the drip revolution, creating a paradigm shift toward low-flow agricultural irrigation.

Today, Netafim provides diverse smart irrigation solutions - from drippers and sprinklers to high-end digital farming solutions and automated systems - for a range of agriculture, landscaping and mining applications. Netafim also offers large-scale and turnkey open-field and greenhouse projects - from design to maintenance - featuring engineering, project management and financing services.

Since its establishment over 50 years ago, Netafim has been the global leader in agricultural irrigation solutions. With hundreds of leading agronomic and technical professionals, numerous state-of-the-art technologies, and decades of implementation experience, Netafim provides a comprehensive, innovative and field-proven offering for all crops, topographies, climates and conditions. Netafim closely accompanies customers from the get-go, offering end-to-end expert guidance and support to help meet their specific needs.

Serving growers of all sizes - from smallholders to large-scale farmers - Netafim is helping the world grow more with less.

1965

Established at Kibbutz Hatzerim

1966

Introduces world's first commercialized dripper

1981

Opens first subsidiary outside of Israel

1999

Merges into single corporation

2008

Becomes member of UN CEO Water Mandate

2011

Permira funds acquires controlling interest

2013

Named 2013 Stockholm Industry Water Award Laureate

2015



ABOUT NETAFIM'S DIGITAL FARMING

Leveraging over 15 years of technological experience, a growing installed base, and a world-class agronomy department that deeply understands growers' needs, Netafim is the leading global provider of digital farming solutions.

Comprised of three families of cutting-edge and reliable product types - monitoring and management systems, controllers and dosing systems - Netafim's digital farming offering enables smarter, faster and more accurate irrigation. Taking into account all soil, weather, crop, environmental and hydraulic conditions, our cloud-based solutions present a real-time, in-field situation picture and comprehensive data that can be accessed by a farmer's PC or mobile device anytime, anywhere. This enables farmers to manage, control and optimize irrigation and fertigation according to the crop's specific needs. With our digital farming offering, farmers enjoy steadier productivity, lower risk and higher efficiency, leading to greater profitability.

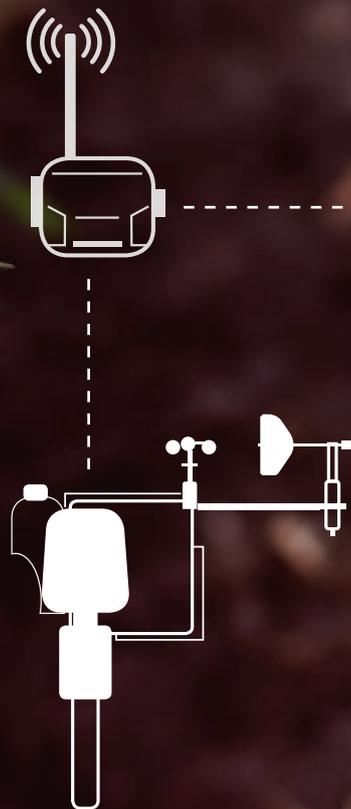


MONITORING & MANAGEMENT SYSTEMS

CUTTING-EDGE SOLUTIONS

Netafim's monitoring and management systems include rSense - a cutting-edge solution comprised of diverse sensors and a wireless communications system based on advanced radio frequency technology - and uManage state-of-the-art crop management software.

Monitoring all soil, weather, crop, environmental and hydraulic conditions, rSense sensors are connected to a base with an embedded cellular modem that connects to uManage. User-friendly with a simple and intuitive user interface (UI), uManage continuously collects data from the sensors to present a clear, real-time view of a farm's status. Offering a new user experience (UX), uManage features several easy-to-use tools, including a dynamic dashboard, decision support system (DSS) graphic tool, dynamic map, and navigation panel with online information and easy access to any farm device. Netafim's comprehensive monitoring and management systems improve growers' planning and decision making, leading to optimized farm resource utilization and higher yields.





HIGHLIGHTS

- Includes a broad array of sensors
- Offers real-time in-field monitoring
- Provides water and nutrient usage traceability
- Enables anytime, anywhere connectivity
- Features user-friendly web user interface

PRODUCTS

Netafim's monitoring and management systems include rSense sensors/wireless communications system and uManage crop management software.

- rSense's wide range of sensors include:
 - Soil moisture and temperature sensors - NetaSense (VWC of soil), Irrrometer (water tension of soil), SM150T by Delta T (soil moisture content), NetaCap by DFM (profile depth soil moisture and temperature)
 - Water meter, fertilizer meter and pressure sensors
 - Dendrometer sensors
 - Meteorological station - meteoSense (air temperature, relative humidity, radiation, solar radiation summary, wind speed, wind direction, rain gauge, daily rain counter, ET calculation, dew point calculation, maximum wind speed)
- uManage - advanced crop management software for sensor data collection and presentation of real-time, in-field situation picture

VANTAGE PRO2 GROWEATHER

MODULAR, CLOUD-BASED WEATHER STATION BY DAVIS

OVERVIEW

The Vantage Pro2 GroWeather station provides real-time weather updates directly to a grower's mobile device or PC. Effective under the most demanding conditions, the cloud-based weather station is fully integrated with uManage crop management software, enabling viewing and storing of data on any device - anytime, anywhere.

HIGHLIGHTS & BENEFITS

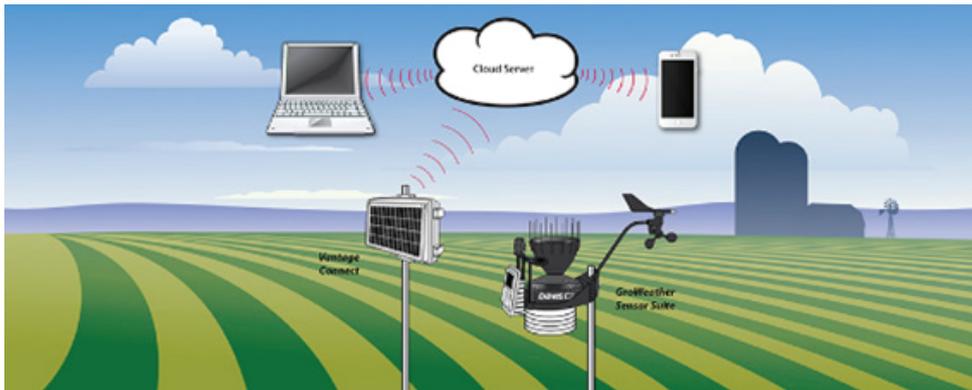
- Rugged and flexible
- Dependable data transmission
- Simple installation
- High accuracy
- Plug-and-play connection to uManage
- Customized options

DATA COVERAGE

- Air temperature
- Relative humidity
- Radiation
- Wind speed
- Wind direction
- Rain gauge
- Daily rain counter
- ET calculation (evapotranspiration)
- Dew point calculation
- Maximum wind speed



TYPICAL INSTALLATION



For illustrative purposes

ORDER DETAILS

SAP #	DESCRIPTION
33010-012040	UMANAGE WEATHER STATION F/MOST COUNTRIES

SPECIFICATIONS

- Operating temperature: -40°F-150°F (-40°C-65°C)
- Non-operating temperature: -40°F-158°F (-40°C-70°C)
- Current draw (ISS SIM only): 5mA (average) at 4-6VDC
- Sensors connector: modular sensor RJ-11
- Cable type: 4-conductor, 26 AWG
- Cable length: anemometer 40 feet (12m) (included),
240 feet (73m) (maximum recommended)

For further information, please consult our pre-sales support via Cmt.Support@netafim.com

For assembly and installation information, please go to <https://www.youtube.com/watch?v=GNA5SYImNAo>

For maintenance information, please go to <https://www.youtube.com/watch?v=8UjG9LNec-I>

IRRIGATOR RSU-V TENSIO METER

SOIL MOISTURE MEASUREMENT TOOL

OVERVIEW

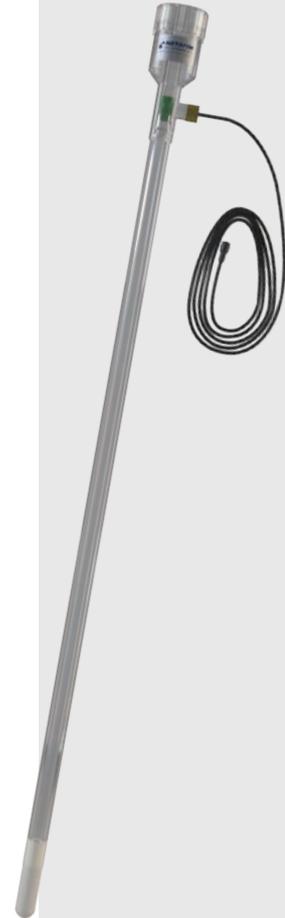
The Irrigator tensiometer is a proven and reliable tool that provides users with accurate information on soil moisture status, regardless of soil type, and is fully integrated with uManage software. Measuring soil water tension in centibars (cb) or kilopascals (kPa), the tool determines the amount of energy that a plant's root system uses to draw water from the soil. By understanding soil moisture activity, users make better informed irrigation scheduling decisions that lead to improved yields and quality, while reducing water, fertilizer, labor and energy costs.

HIGHLIGHTS & BENEFITS

- High accuracy
- Cost-efficient and reliable irrigation scheduling
- Unaffected by salinity with no need for site calibration, thereby offering true soil water potential measurement
- Available in several models for sandy and other soil types, with standard lengths of 30cm, 60cm, 90cm (12", 24", 36") based on crop's rooting depth

FEATURES & FUNCTIONALITY

- Low-cost voltage output/input transducer
- RoHS-compliant
- Voltage output signal read by rSense unit, enabling real-time data transmission to the grower
- Temperature compensated



TYPICAL INSTALLATION

UPPER TENSIO METER

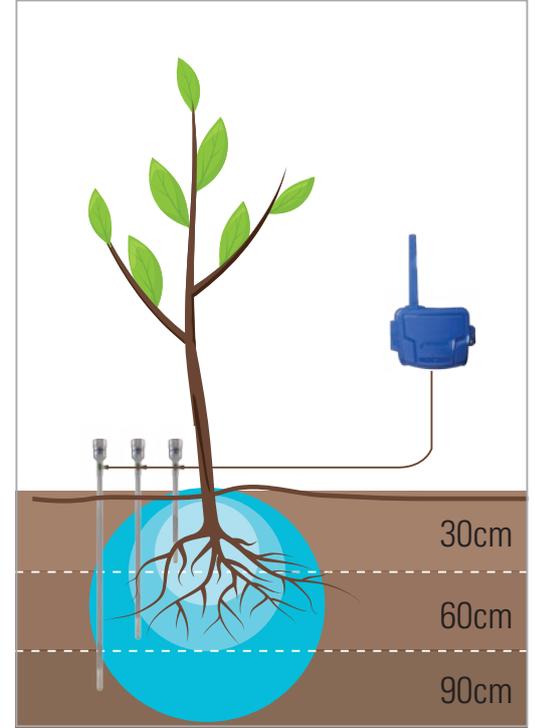
- Placed at the top of the root zone
- Provides data of the wetted bulb’s development in the soil, and indicates the appropriate time to irrigate

MIDDLE TENSIO METER

- Placed at the midpoint of the main fibrous root system
- Provides data regarding the soil’s wetness in the root zone

LOWER TENSIO METER

- Placed at the bottom of the root zone
- Used to determine if too much or too little water is being applied in each irrigation and the proper time intervals between irrigation to provide data regarding runoff or deep percolation



ORDER DETAILS

SAP #	DESCRIPTION	REMARKS
74390-007910	RSENSE IRROMETER RSU - V-MOST SOILS-30/12	30cm / 12" length
74390-007920	RSENSE IRROMETER RSU - V-MOST SOILS-60/24	60cm / 24" length
74390-007930	RSENSE IRROMETER RSU - V-MOST SOILS-90/36	90cm / 36" length
74390-007940	RSENSE IRROMETER RSU - V-SANDY SOILS-30/12	30cm / 12" length
74390-007950	RSENSE IRROMETER RSU - V-SANDY SOILS-60/24	60cm / 24" length
74390-007960	RSENSE IRROMETER RSU - V-SANDY SOILS-90/36	90cm / 36" length

SPECIFICATIONS

- Output voltage: 0.5-4.5V, 2.5mA
- Accuracy: +/- 2% of full scale
- Weight: 2.16oz (61.22gm)
- Dimensions: 25mm (w) x 30cm (d) x 25cm (h) (1" x 1.88" x 1")
- Operating temperature: 32°-150°F (0°-66°C)
- Connection: 1/4" NPT brass
- Supply voltage: 5VDC (+/- 0.5 VDC)
- Supply current: 10mA
- Range: 0-94 cb (kPa)

For filling and service information, please go to https://www.youtube.com/watch?v=FDKqEYoG_XQ

NETASENSE V2

SOIL MOISTURE SENSOR FOR ALL SOIL TYPES

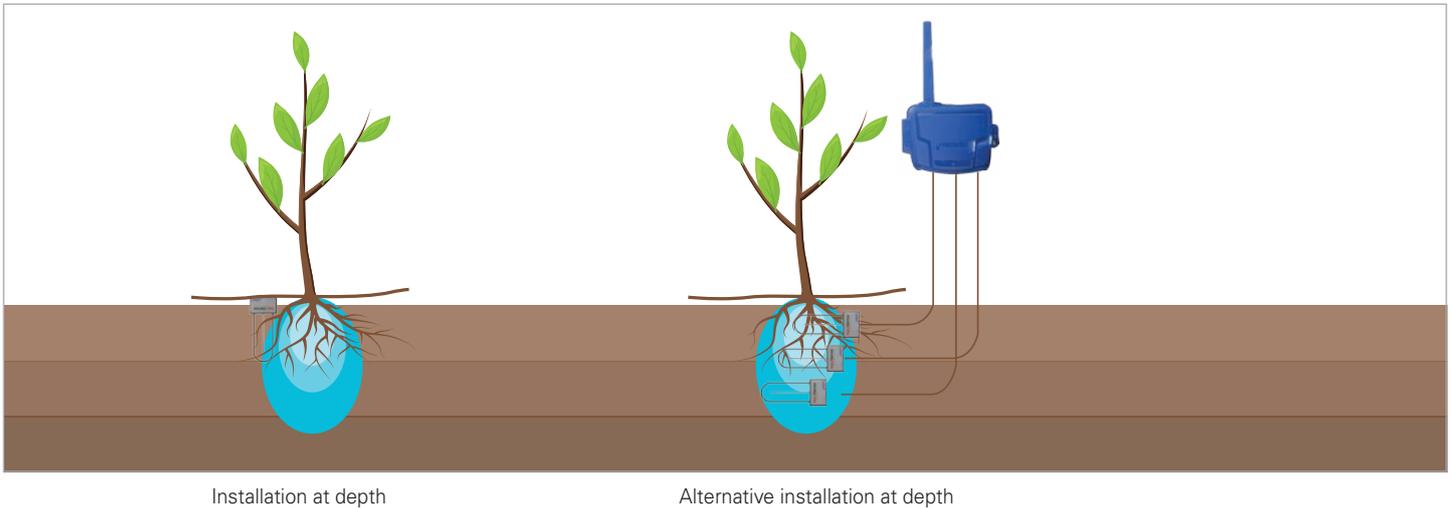
OVERVIEW

NetaSense is a soil moisture sensor that works with all soil types. Fully integrated with uManage software, the sensor monitors the volumetric water content (VWC) of the soil based on time domain transmissometry (TDT) technology, which works according to the same operating principle as time domain reflectometry (TDR) technology. Measuring the speed of an electromagnetic wave - the most accurate method of measuring water content in soil - NetaSense enables an immediate and accurate response to changes in soil and moisture levels.

FEATURES & BENEFITS

- Stainless steel, robust all-soil sensor
- Sealed electronics via waterproof epoxy
- High accuracy
- Easy to install
- Integrated with uManage





ORDER DETAILS

CAT#	DESCRIPTION
74390-003800	RSEN-NETASENSE SENSOR

SPECIFICATIONS

- Temperature range
 - Operating: 0°C-50°C
 - Storage: -20°C-60°C
- Output format: 0.5-5.0mA
- Power requirements: 5.5-18VDC, 10-20mA (max)
- Accuracy: 1% volumetric soil moisture (can be less accurate)
- Cable length: 2.5m
- Connection: 4 pin Switchcraft connector EN3C3M
- Dimension: 9.5cm (w) x 3.2cm (d) x 27.0cm (h)
- Weight: 0.5kg
- Typical measurement field: 4cm in all directions from the most external element

DELTA T - SM 150T

MULTIFUNCTIONAL, HIGHLY ACCURATE SOIL MOISTURE SENSOR

OVERVIEW

The Delta T sensor measures soil moisture content. The soil moisture output signal is a differential analog DC voltage that is converted to soil moisture by a data logger or meter using the supplied general soil calibration. The soil moisture content can also be calibrated for specific soils. Fully integrated with uManage crop management software, the sealed plastic body is attached to two sensing rods directly inserted in the soil to enable highly accurate readings.

HIGHLIGHTS & BENEFITS

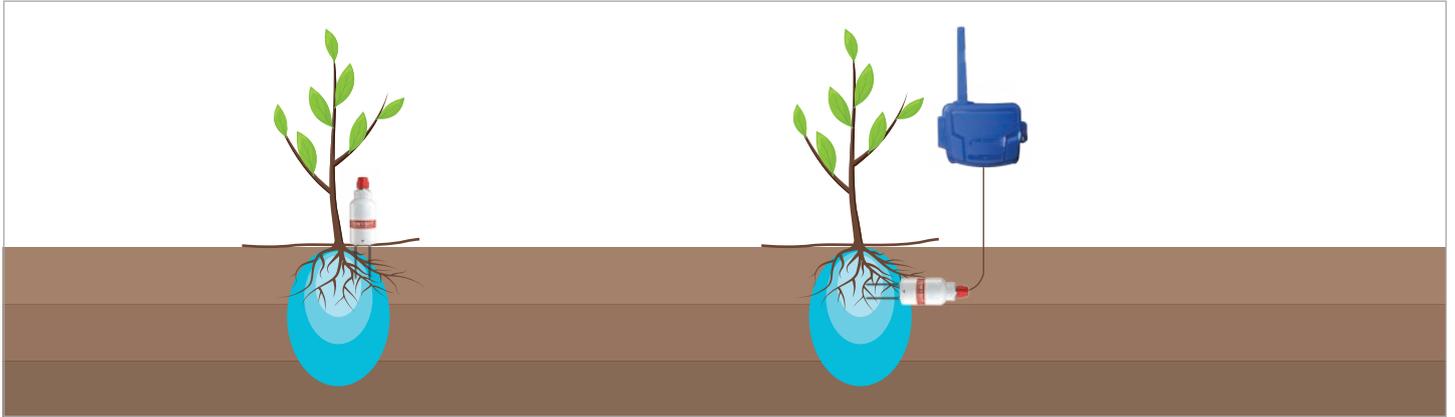
- Cost-efficient, research-grade sensor
- Dependable
- Accurate to $\pm 3\%$
- Rugged, weatherproof and can be buried
- Easy installation at depth in augured holes, and easy removal for servicing
- Low salinity sensitivity
- Excellent stability
- Minimal soil disturbance
- Adaptable to all soil and soilless media types

FEATURES & FUNCTIONALITY

- Waterproof connector to IP68
- Good electrical immunity
- Choice of cabling system options
- Cable connector, cylindrical profile and extension tube design
- Optional temperature-sensor capabilities



TYPICAL INSTALLATION



Surface installation and spot measurements

Alternative installation at depth

ORDER DETAILS

CAT #	DESCRIPTION
74390-008200	SOIL MOISTURE SENSOR M12 IP68 DELTA-T
74390-008500	DELTA T CABLE 15FT W/PLUG, LONG BARE WIRE
77100-004448	PG-9 CABLE GLAND

NETACAP PROFILE PROBE

MULTILEVEL SOIL MOISTURE AND TEMPERATURE SENSOR BY DFM

OVERVIEW

The NetaCap profile probe is a multilevel soil moisture and temperature sensor that is fully integrated with uManage crop management software. The easy-to-install probe delivers a complete data package to the grower to improve irrigation planning and strategic decision-making.

HIGHLIGHTS & BENEFITS

- High accuracy and reliability
- Cost-efficient, high-level instrument
- State-of-the-art, proven technology
- Easy-to-use tool
- Ideal for all root zones with any soil type

FEATURES & FUNCTIONALITY

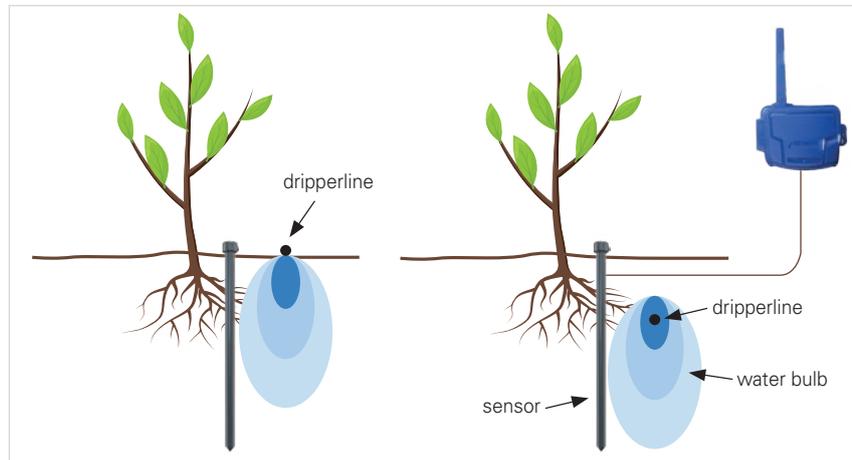
- Temperature compensation
- Soil moisture and temperature data measurement from 6 depths
- Ambient condition measurement via additional temperature sensor at top of probe
- Continuous data collection via uManage



TYPICAL INSTALLATION



NetaCap probe depths



On-surface drip irrigation installation (left) and subsurface drip irrigation installation

ORDER DETAILS

SAP #	DESCRIPTION
74390-002680	RSENSE MD PROBE - MULTI-DEPTH - 80CM

NetaCap probe must be connected to a dedicated rMSense DFM unit. Please consult with CMT pre-sales support on this matter at Cmt.Support@netafim.com

SPECIFICATIONS

- Equipment type: Electronic capacitance continuous logging probe
- Length: 80cm
- Body material: Polyvinyl chloride (PVC plastic)
- Communication: TTL/RS232
- Power source: 3.6V, 500mA regulated supply
- Active state in transit: Not active, not energized
- Packaging for transit: Custom designed box with bubble wrap

uManage

REAL-TIME CROP MANAGEMENT SOFTWARE

OVERVIEW

uManage is advanced real-time crop management software providing growers with their farms' status at a glance. Integrated with rSense, a cutting-edge solution comprised of diverse sensors and RF-based wireless communications, uManage continuously collects data from the field. Anchoring Netafim's leading monitoring and management systems, uManage enables end users to optimize their farm resources and increase yield.

The software provides user-friendly tools for field monitoring and status:

- Dynamic dashboard
- Graphic tool with real-time crop management and decision support system (DSS)
- Dynamic map to get field status at a glance
- Navigation panel with online information, and simple access to any farm device

HIGHLIGHTS & BENEFITS

- Cloud-based software with high availability
- Remote access and support to/from any unit
- Multiple communications interfaces (RF, cellular)
- Low power, long-lasting battery
- Broad array of sensors - soil, hydraulic, weather, plant
- Real-time in-field monitoring
- Water and nutrient usage traceability
- Anywhere, anytime connectivity
- Web and mobile access
- Graph and status updates
- Photography, note-taking, manual data input



RADIO FREQUENCIES

TYPE	REGION	RADIO FREQUENCY
A	Europe	865 MHz
B	Asia Pacific, South America & Australia	915 MHz
C	Middle East	315 MHz
D	USA	450 MHz
E	China	433 MHz

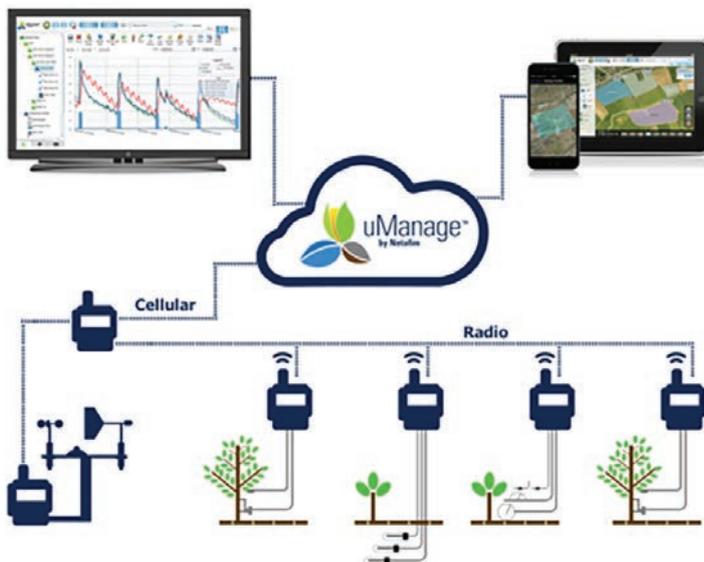


SYSTEM ARCHITECTURE

The remote rSense site is connected to the rLink base via an embedded cellular modem that connects to the uManage server.

If radio reception is low or there are great distances between sites, the remote rSense site is connected to the rLink router, which connects to the rLink base.

- Note: The customer is responsible for cellular network set-up and operational costs (e.g. SIM card, data package)

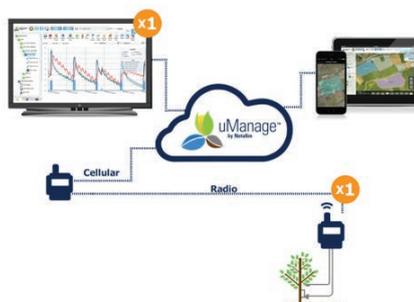


ORDER DETAILS

The following commercial kits are available for rSense, rLink and uManage.

PACKAGE NAME: BASIC		
rSense	1	
rLink Cellular	1	
uManage Users (Single License)	1	
Remarks	Basic monitoring package, 1 digital input, 3 analog inputs	
SKU	74395-001561	UMANAGE-BASIC-KIT-AUS-915-MODEM
	74395-001564	UMANAGE-BASIC-KIT-CN-433-MODEM
	74395-001566	UMANAGE-BASIC-KIT-EU-865-MODEM
	74395-001565	UMANAGE-BASIC-KIT-IL-315-MODEM
	74395-001560	UMANAGE-BASIC-KIT-US-450-W/O MODEM

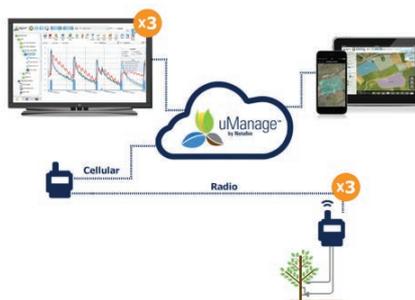
PACKAGE NAME: BASIC



PACKAGE NAME: SMALL-MEDIUM

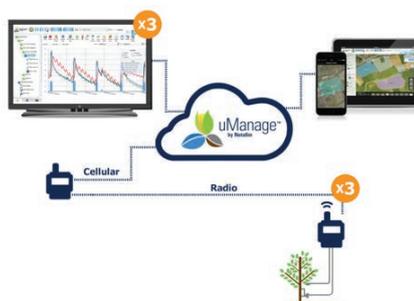
PACKAGE NAME: SMALL-MEDIUM		
rSense	3	
rLink Cellular	1	
uManage Users (Single License)	3	
Remarks	For small-to-medium farms, up to 3 rSense & 3 uManage licenses	
SKU	74395-001571	UMANAGE-SMB-KIT-AUS-915-MODEM
	74395-001572	UMANAGE-SMB-KIT-CN-433-MODEM
	74395-001573	UMANAGE-SMB-KIT-EU-865-MODEM
	74395-001574	UMANAGE-SMB-KIT-IL-315-MODEM
	74395-001575	UMANAGE-SMB-KIT-US-450-W/O MODEM

PACKAGE NAME: SMALL- MEDIUM



PACKAGE NAME: PRO/LARGE		
rSense	5	
rLink Cellular	1	
uManage Users (Single License)	3	
Remarks	Professional monitoring package, for large farms, up to 5 rSense & 3 uManage licenses	
SKU	74395-001562	UMANAGE-PRO-KIT-AUS-915-MODEM
	74395-001567	UMANAGE-PRO-KIT-CN-433-MODEM
	74395-001568	UMANAGE-SMB-KIT-EU-865-MODEM
	74395-001569	UMANAGE-SMB-KIT-IL-315-MODEM
	74395-001570	UMANAGE-SMB-KIT-US-450-W/O MODEM

PACKAGE NAME: PRO/LARGE



UMANAGE SINGLE LICENSE ONLY	SKU	DESCRIPTION
Single uManage User	74395-001576	UMANAGE-LICENSE-PROMOTION-1 USER

PLEASE NOTE

To allow maximum flexibility, all rNet products (rSense, rLink, sensors, solar panels, meteoSense) can still be purchased as stand-alone items with existing SKUs.



USER & INSTALLATION GUIDE

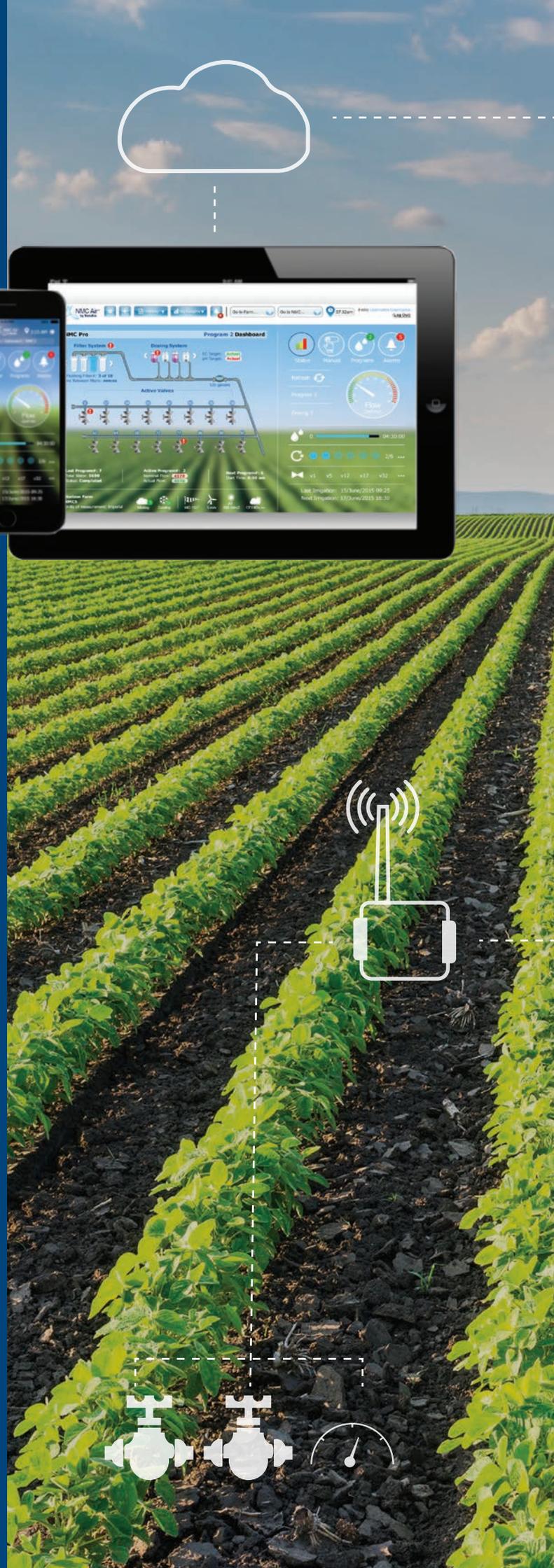
Scan for installation guides & movies

CONTROLLERS

ADVANCED, RELIABLE AND FLEXIBLE CONTROL SYSTEMS

Netafim's controllers cover a wide range of open-field and greenhouse irrigation applications regardless of climate or plot condition. Available in AC and DC versions, the advanced, reliable and flexible controllers manage up to 250 irrigation valves in the field, and up to 50 controllers in the same network.

Our robust controllers connect with Netafim's NMC Air cloud-based software to a gateway that creates a network of between one to five controllers.





HIGHLIGHTS

- Manages up to 250 irrigation valves
- Displays user-friendly programming interface
- Integrates with cellular or Ethernet communications software
- Increases fertigation accuracy

PRODUCTS

Netafim offers a wide range of controllers for open-field and greenhouse applications.

- NMC-PRO - advanced modular, multifunctional system for large plots
- NMC-Junior PRO - cost-effective multifunctional system for small and medium plots
- NMC DC - battery-powered system for large and small plots
- MiniAg - cost-effective system for small-scale open-field applications
- NMC-PRO Climate - cost-effective system for a wide range of greenhouses located in cold or warm environments

NMC-PRO Controller

ADVANCED, MULTIFUNCTIONAL, MODULAR AND ROBUST
IRRIGATION CONTROLLER

OVERVIEW

The NMC-PRO is a state-of-the-art irrigation controller for mid-to-large-scale applications. A robust and user-friendly stand-alone controller that operates under all weather conditions, NMC-PRO is suitable for open field and greenhouse solutions.

HIGHLIGHTS & BENEFITS

- Cost-effective, high-level controller
- Mobile and web remote control via NMC Air
- User-friendly, multilingual interface
- High resistance under all weather conditions
- Modular design

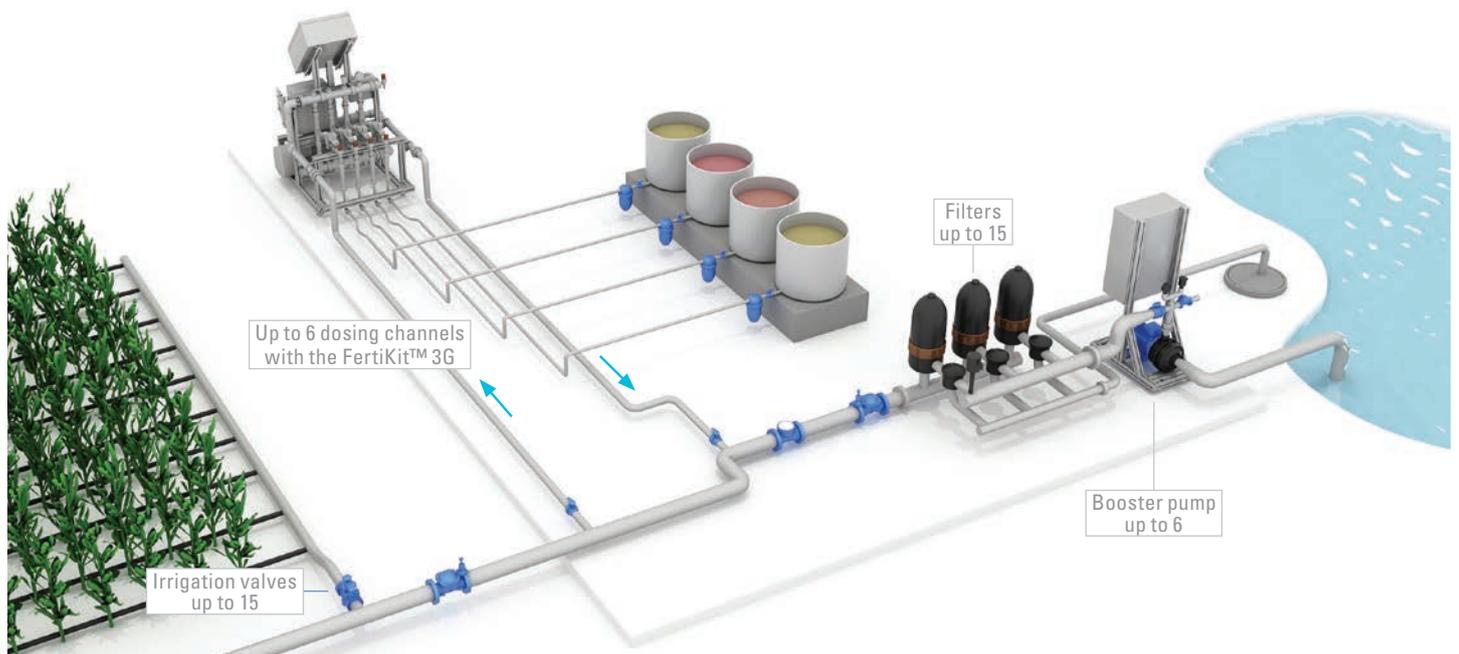
FEATURES & FUNCTIONALITY

- Up to 256 outputs for configuring valve irrigation/cooling/misting
- Up to 8 fertilizer dosing channels
- Up to 6 booster pumps
- Valve control via RF with RadioNet, or via 2-wire cable with SingleNet
- Irrigation strategy based on dosing program, water run time and irrigation program
- Irrigation start based on time, condition, VPD sum, or radiation sum
- Filter flush program start based on either time or delta pressure
- Cooling strategy based on time and actual temperature, as well as on relative humidity sensors
- Misting strategy start based on scheduled time; can also be used as a simple timer program



TYPICAL INSTALLATION

NMC-PRO controller with FertiKit 3G dosing system



ORDER DETAILS

SAP #	DESCRIPTION	REMARKS
74340-xxxxxx	NMC PRO - small	NMC PRO -11 analog inputs, 8 digital inputs, 24 outputs, RadioNet and SingleNet (optional)
74340-xxxxxx	NMC PRO - medium	NMC PRO -11 analog inputs, 8 digital inputs, 40 outputs, RadioNet and SingleNet (optional)
74340-xxxxxx	NMC PRO - large	NMC PRO -11 analog inputs, 8 digital inputs, 64 outputs, RadioNet and SingleNet (optional)
74340-xxxxxx	NMC PRO - giant	NMC PRO -11 analog inputs, 8 digital inputs, up to 256 outputs, RadioNet and SingleNet (optional)

For specific SAP number please contact our pre-sales support via Cmt.Support@netafim.com

NMC-Junior PRO Controller

COST-EFFECTIVE, MULTIFUNCTIONAL CONTROLLER FOR SMALL-TO-MEDIUM-SCALE APPLICATIONS

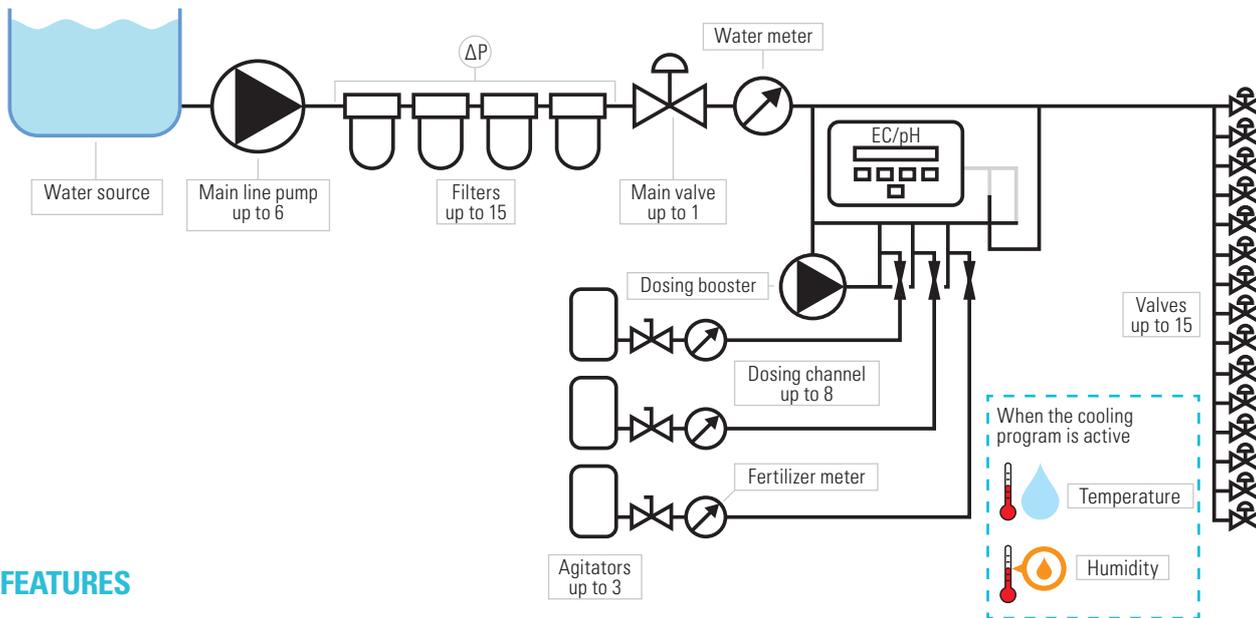
OVERVIEW

The NMC-Junior PRO is a cost-effective, multifunctional irrigation controller for small-to-medium-scale applications. Designed for open field and greenhouse applications, NMC-Junior PRO has 15 outputs for flexible configuration.

HIGHLIGHTS & BENEFITS

- Cost-effective
- Mobile and web remote control via NMC Air
- Precise EC and pH monitoring and control
- User-friendly and multilingual interface with large graphical display
- Integrated with FertiKit Nutrigation™ system, or as a stand-alone product



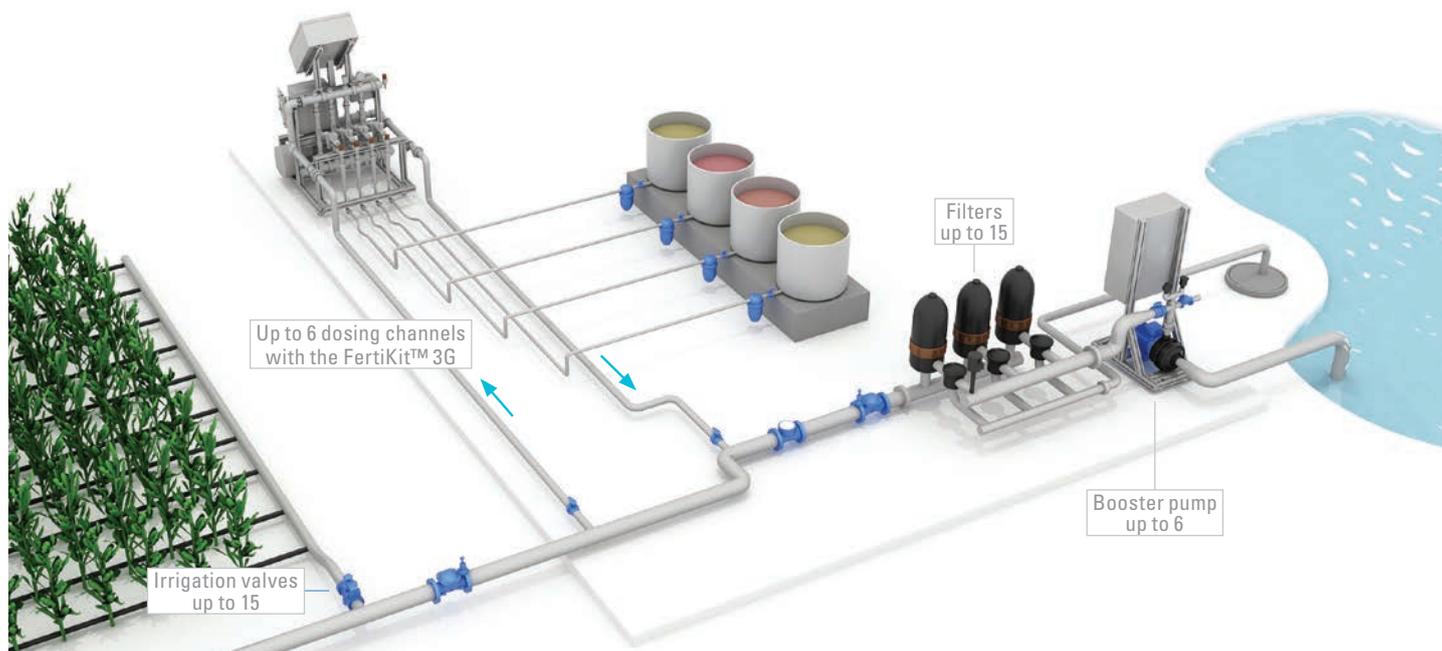


FEATURES

- 15 flexible outputs
 - Up to 15 valves - irrigation/cooling/misting
 - Up to 6 booster pumps
 - Up to 1 main valve
 - Up to 8 fertilizer dosing channels
 - Up to 3 agitators
 - Up to 15 backflush filter valves
- Inputs
 - 6 digital inputs for water meter, fertilizer meter and delta pressure switch
 - 5 analog inputs for EC, pH, 2 x temperature and relative humidity
- Irrigation strategy is based on a dosing program, water run time program and irrigation program
- Irrigation starts by either time, conditions, VPD sum, or radiation sum
- Filter flush program starts by either time and/or delta pressure (ΔP)
- Cooling strategy is based on time, actual temperature and relative humidity sensors
- Misting strategy starts by scheduled time; this program can also be used as a simple timer program

TYPICAL INSTALLATION

NMC-Junior PRO controller with FertiKit 3G dosing system



ORDER DETAILS

NMC-JUNIOR PRO BASIC CONFIGURATIONS

Stand-alone

CAT. No.	DESCRIPTION
74340-005145	NMC-JUN-PRO-IR-SB-115 CONTROLLER
74340-005135	NMC-JUN-PRO-IR-SB-230 CONTROLLER
74340-023950	NMC-JUN-PRO-IR-SB-115-485-PL-G CONTROLLER
74340-023940	NMC-JUN-PRO-IR-SB-230-485-PL CONTROLLER
74340-005140	NMC-JUN-PRO-IR-SB-KC-230 CONTROLLER
74340-023960	NMC-JUN-PRO-IR-DD-115V-PL-G CONTROLLER
74340-023930	NMC-JNKRCN-PRO-IR-SB-230-485-PL CONTROLLER
74340-089100	NMC-JUN-PRO-IR-SB-115-PL-G CONTROLLER
74340-089120	NMC-JUN-PRO-IR-SB-230 CONTROLLER
74340-089130	NMC-JUN-PRO-IR-DD-230-PL CONTROLLER
74340-089140	NMC-JUN-PRO-IR-SB-230-PL CONTROLLER
74340-089150	NMC-JUN-PRO-IR-SB-12V CONTROLLER
74340-089160	NMC-JUN-PRO-IR-DD-12V CONTROLLER
74340-089170	NMC-JUN-PRO-IR-SB-230-485 CONTROLLER
74340-089180	NMC-JUN-PRO-IR-DD-230-485-PL CONTROLLER



For FertiKit 3G

CAT. No.	DESCRIPTION
74340-010120	NMC-JUNIOR-PRO-FOR-FERTIKIT 80W-230V
74340-010110	NMC-JUNIOR-PRO-FOR-FERTIKIT 80W-115V
74340-010130	NMC-JUNIOR-PRO-FERTIKIT 80W-115V D.DOOR
74340-010135	NMC-JUNIOR-PRO-FERTIKIT 80W-230V D.DOOR
74340-010160	NMC-JNKRCN-PRO-SB-CN-230-80W F/FERTIKIT

UPGRADE FROM NMC-JUNIOR TO NMC-JUNIOR PRO

CAT. NO.	DESCRIPTION	COMMENTS
74340-009980	NMC-JUNIOR PRO CPU CARD FOR LED	For NMC Junior with LED display
74340-009990	NMC-JUNIOR PRO CPU CARD FOR FLUR	For NMC Junior with fluorescent display

POWER SPECIFICATIONS

- 15 outputs: 24 VAC
- Internal surge protector: 115/230 VAC
- Surge protection on inputs and outputs
- Power supply: 115/230 VAC, 35W

AVAILABILITY

Lead time:
4 weeks from receipt of
customer's order.

USER & INSTALLATION GUIDE

An installation guide with comprehensive explanations is provided with the NMC-Junior PRO and can be downloaded from the Netafim Media Center at <http://www.netafim.com/media-center>

NMC-PRO Climate Controller

ADVANCED MODULAR, MULTIFUNCTIONAL GREENHOUSE CONTROLLER

OVERVIEW

The NMC-PRO Climate is a multifunctional greenhouse controller covering diverse climatic conditions. The cost-effective controller is suitable for small-to-mid-range greenhouses.

HIGHLIGHTS & BENEFITS

- Advanced climate control management
- Real-time climate control
- Control of up to 4 climate zones in a single controller
- Installation of up to 50 zones in a single network
- Easy integration with NMCnet software for carrying out climate control, operations and management, and with a graphic module for monitoring and analyzing controller performance
- Weather station data sharing with all controllers in the same network
- New temperature and humidity measuring box design, enabling longer durability

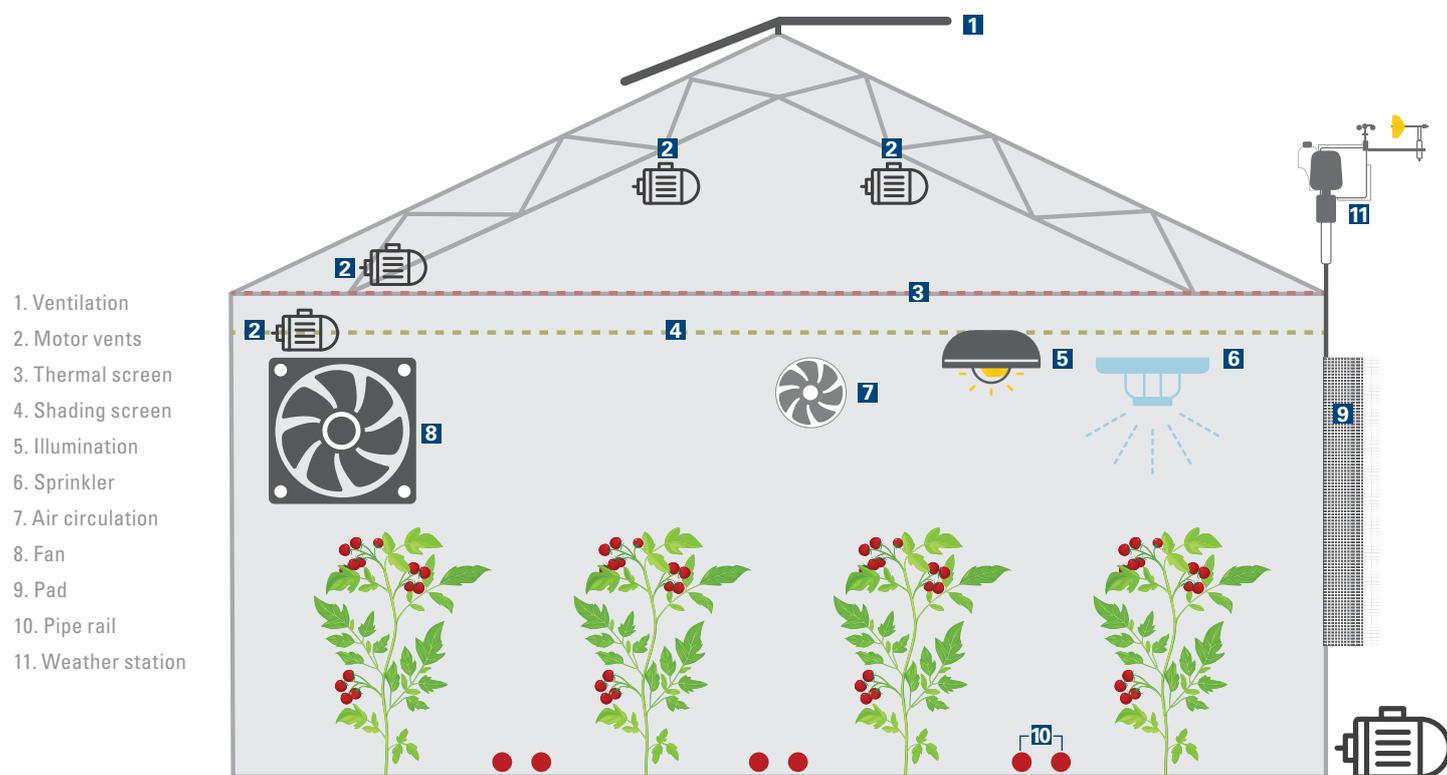


FEATURES & FUNCTIONALITY

The NMC-PRO Climate can control diverse modules and components in a greenhouse, including:

- Vents - top and side
- Screens - shading and energy
- Heating - ON/OFF heating and up to 5 water heating networks per zone; upgraded heating network algorithm enables high calculation accuracy, performance and energy efficiency
- Misting - up to 8 misting valves per zone with PID control by temperature, RH and VPD triggers
- Fan and pad - up to 8 fan stages per zone controlled by temperature, RH and/or time (integrated air inlet control)
- Air circulation - controlled by time and/or trigger, temperature and RH

MODULES



ORDER DETAILS

#	SAP #	DESCRIPTION	REMARKS
1	74340-xxxxxx	NMC PRO Climate - 1 zone	NMC PRO Climate - 11 analog inputs, 8 digital inputs, 24 outputs
2	74340-xxxxxx	NMC PRO Climate - 2 zones	NMC PRO Climate - 11 analog inputs, 8 digital inputs, 40 outputs
3	74340-xxxxxx	NMC PRO Climate - 3-4 zones	NMC PRO Climate - 22 analog inputs, 8 digital inputs, 64 outputs
4	74340-xxxxxx	NMC PRO Climate - up to 4 zones	NMC PRO Climate - 44 analog inputs, 8 digital inputs, up to 256 outputs

For specific SAP number please contact our pre-sales support via Cmt.Support@netafim.com

NMC-PRO DC Controller

ADVANCED, ROBUST CONTROLLER FOR FARMING AREAS WITHOUT ELECTRICAL POWER

OVERVIEW

The NMC-PRO DC is an ideal solution for remote farms that have no electricity source. An advanced and robust stand-alone controller, the NMC-PRO DC is suitable for small-to-medium open-field applications.

HIGHLIGHTS & BENEFITS

- Cost-effective, advanced controller
- Mobile and web remote control via NMC Air
- Robust, stand-alone system
- User-friendly and multilingual interface
- Precise EC and pH monitoring and control

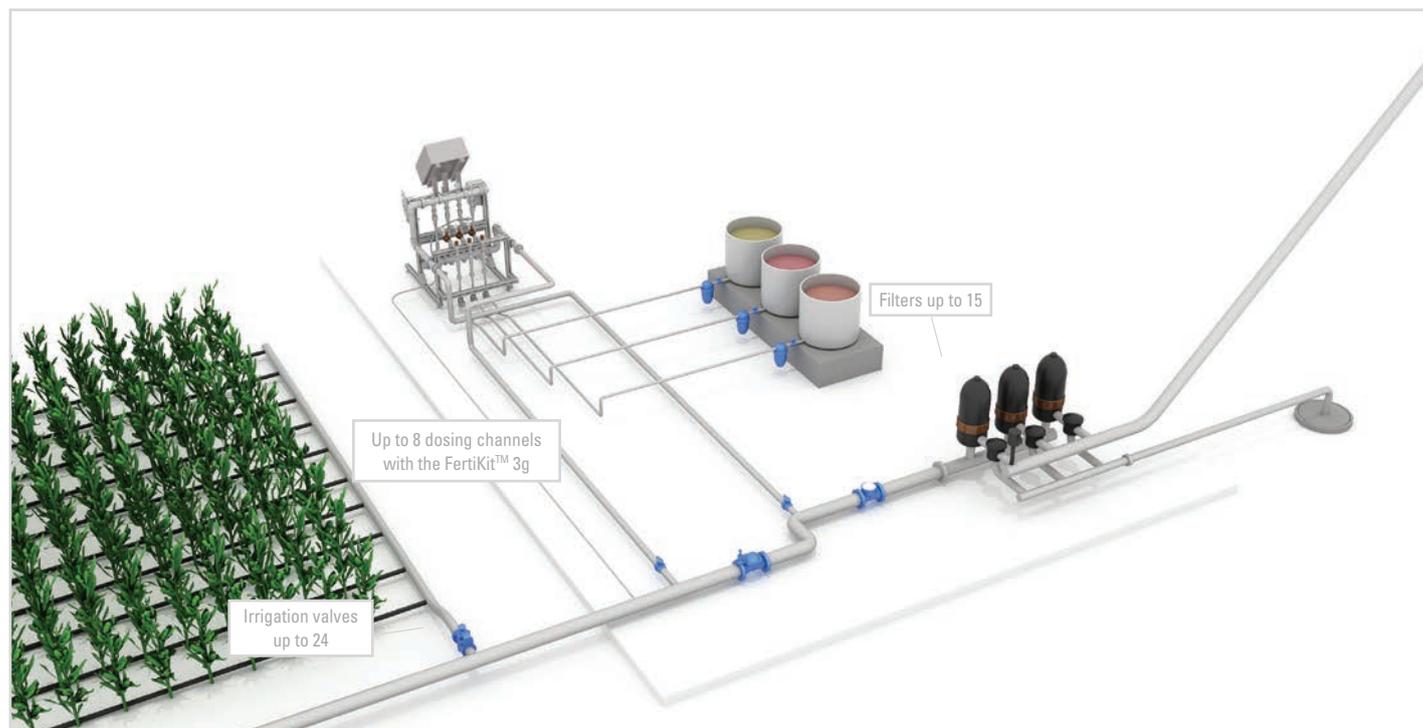


FEATURES & FUNCTIONALITY

- Up to 24 outputs for configuring valve irrigation
- Up to 6 booster pumps
- Up to 8 fertilizer dosing channels
- Valve control via RF with RadioNet, or via mono cable with SingleNet
- Irrigation strategy based on dosing program, water run time, and irrigation program
- Irrigation start based on time, condition, VPD sum, or radiation sum
- Filter flush program start based on either time or delta pressure
- Cooling strategy based on time and actual temperature, as well as on relative humidity sensors
- Misting strategy start based on scheduled time; can also be used as a simple timer program

TYPICAL INSTALLATION

NMC-PRO DC controller with FertiKit 3G dosing system



Installation when there is no electricity on site

ORDER DETAILS

SAP #	DESCRIPTION	REMARKS
74340-xxxxxx	NMC PRO DC	NMC PRO DC - 4 analog inputs, 4 digital inputs, 24 outputs, RadioNet and SingleNet (optional)

For specific SAP number please contact our pre-sales support via Cmt.Support@netafim.com

NMC AIR

ADVANCED CLOUD-BASED SOFTWARE ENABLING REMOTE CONTROL

OVERVIEW

NMC Air is advanced cloud-based software that links to Netafim's NMC controllers to enable remote monitoring and control of farms anytime, anywhere.

HIGHLIGHTS & BENEFITS

- Cloud-based software
- Real-time in-field situation picture
- Water and nutrient usage traceability
- Remote farm operations
- Easy and enjoyable user experience
- Works with NMC-PRO, NMC-Junior PRO and NMC-PRO DC

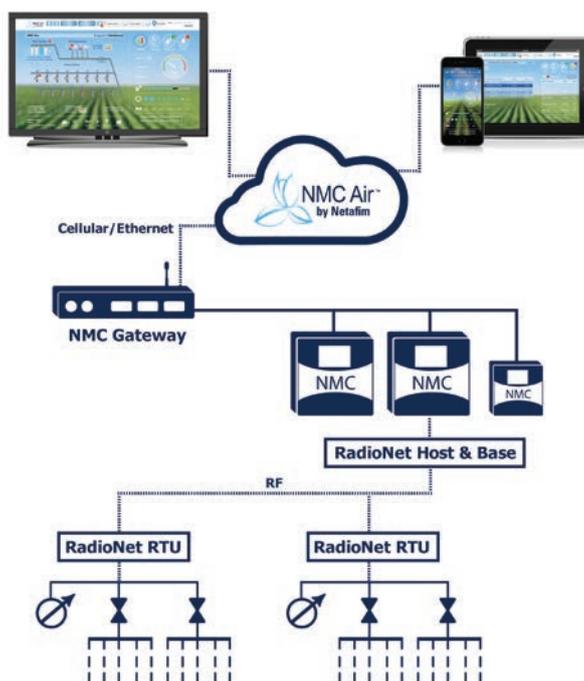
FEATURES

- Farm status and active irrigation and dosing performance in a single view
- Alarms and notifications to PC and mobile devices
- Manual NMC irrigation controller operations - pause/resume irrigation, start/stop irrigation program, start/stop irrigation valve, start/stop filter flushing
- Irrigation, dosing and water run time filter, flushing/misting, and cooling program editing and creation
- Graph viewing and creation for continuous farm monitoring
- NMC history for farm data analysis, including sensor log, irrigation log, and incomplete irrigation programs

SYSTEM ARCHITECTURE

- NMC Air connects up to 5 NMC irrigation controllers in a network via an NMC gateway by means of cellular or Ethernet communications
- Controllers working with NMC Air:
 - NMC-PRO
 - NMC-Junior PRO
 - NMC-PRO DC





ORDER DETAILS

1. NMC AIR KIT FOR SINGLE NMC-PRO IRRIGATION

SAP #	DESCRIPTION	PACKAGE INCLUDES
33900-003000	NMC-AIR-KIT-FOR-NMC-PRO-SINGLE-GW-US-PS	1 Gateway for single NMC PRO with power supply for USA / UK / EU / AU.
33900-003010	NMC-AIR-KIT-FOR-NMC PRO-SINGLE-GW-UK-PS	
33900-003020	NMC-AIR-KIT-FOR-NMC PRO-SINGLE-GW-EU-PS	1 NMC PRO Communication card 2 years NMC Air cloud license
33900-003030	NMC-AIR-KIT-FOR-NMC PRO-SINGLE-GW-AU-PS	

2. NMC AIR KIT FOR MULTI NMC-PRO 2-5 CONTROLLERS

SAP #	DESCRIPTION	PACKAGE INCLUDES
33900-003040	NMC-AIR-KIT F/2-5-NMC PRO-MULT-GW-US-PS	1 Gateway for single NMC PRO with power supply for USA / UK / EU / AU.
33900-003050	NMC-AIR-KIT F/2-5-NMC PRO-MULT-GW-UK-PS	
33900-003060	NMC-AIR-KIT F/2-5-NMC PRO-MULT-GW-EU-PS	1 NMC PRO Communication card 2 years NMC Air cloud license
33900-003070	NMC-AIR-KIT F/2-5-NMC PRO-MULT-GW-AU-PS	

3. NMC AIR KIT FOR SINGLE NMC-JUNIOR PRO IRRIGATION

SAP #	DESCRIPTION	PACKAGE INCLUDES
33900-003080	NMC-AIR-KIT-FOR-JUN-PRO-SINGLE-GW-US-PS	1 Gateway for single NMC PRO with power supply for USA / UK / EU / AU.
33900-003090	NMC-AIR-KIT-FOR-JUN-PRO-SINGLE-GW-UK-PS	
33900-003100	NMC-AIR-KIT-FOR-JUN-PRO-SINGLE-GW-EU-PS	1 NMC Junior Pro Communication card 2 years NMC Air cloud license
33900-003110	NMC-AIR-KIT-FOR-JUN-PRO-SINGLE-GW-AU-PS	

UPGRADE FROM NMC-JUNIOR TO NMC-JUNIOR PRO

SAP #	DESCRIPTION	PACKAGE INCLUDES
74340-009980	NMC-JUNIOR PRO CPU CARD FOR LED	Relevant for Junior with LED display
74340-009990	NMC-JUNIOR PRO CPU CARD FOR FLUR	Relevant for Junior with fluorescent display



TUTORIAL VIDEO

Scan for a tutorial video at
Netafim's YouTube channel

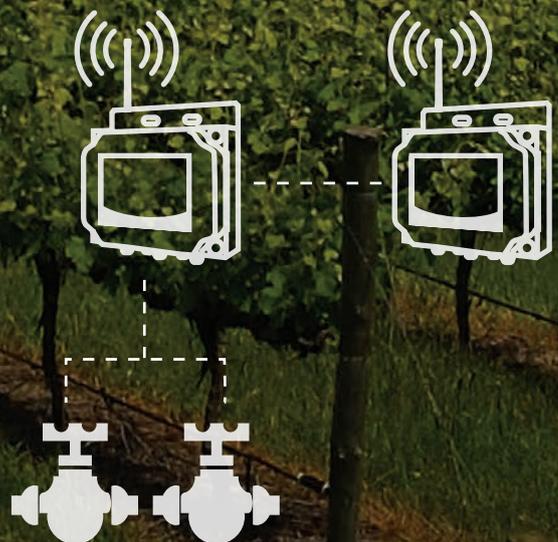
VALVE CONTROL SYSTEMS

WIRELESS AND WIRED SOLUTIONS

Netafim offers both wireless and wired valve control systems for remote irrigation monitoring and control. Easy to set up and operate, the systems are comprised of remote terminal units (RTUs), communications and software. Designed to interface with Netafim and third-party controllers, these systems offer the highest level of control and reliability for projects of all sizes, while ensuring grower peace of mind.

RadioNet is a unified wireless monitoring and control system. Built with an advanced design that includes four modular expansion slots, RadioNet enables virtually unlimited monitoring and control configurations and scalability to strengthen performance. Controlling up to 2,000 valves and 2,000 sensors at one time, RadioNet is a secure, energy efficient system that extends geographical coverage between RTUs, while operating effectively in the most extreme climatic conditions.

SingleNet is a 2-wire cable power and communications system. Fast and easy to install, SingleNet is highly reliable, and requires minimum maintenance to ensure effective long-term usage.





HIGHLIGHTS

- Controls all valve operations
- Easily integrates with existing systems
- Lowers hardware and installation costs
- Requires minimal maintenance
- Ensures reliability and peace of mind

PRODUCTS

Netafim offers two valve control systems enabling long-distance irrigation monitoring and control.

- RadioNet - advanced unified wireless monitoring and control system
- SingleNet - 2-wire cable power and communications system

RadioNet

ADVANCED RF VALVE CONTROL

OVERVIEW

RadioNet is a unified wireless monitoring and control system. Featuring an advanced and modular design, RadioNet is comprised of remote terminal units (RTUs), radio frequency (RF) communications, and software to enable long-distance wireless monitoring and control. The user-friendly system ensures reliable and flexible control over RTUs to increase productivity with minimal interruptions at the highest level of scalability.

HIGHLIGHTS & BENEFITS

- Advanced and modular design that easily integrates into existing systems and ensures network stability
- Flexible and versatile to enable system expansion as the enterprise expands
- Repeater technology to avoid infringing objects while covering great distances
- Long-distance signal capabilities
- Control of up to 2,000 valves and 2,000 sensors at one time to provide maximum control and reliability for large-scale projects



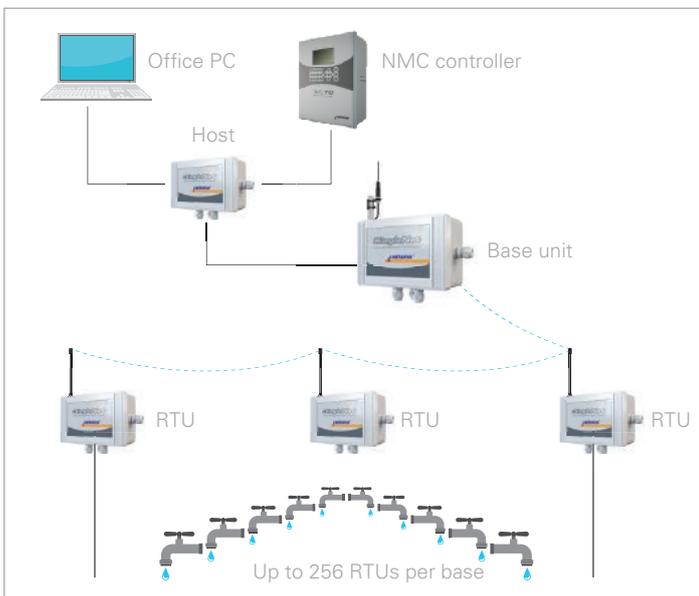
FEATURES & FUNCTIONALITY

- Wireless network - optimized seamless wireless network enabling exceptional system architecture with enhanced throughput in virtually any environment
- Modular and scalable - four modular expansion slots enabling virtually unlimited monitoring and control configuration to strengthen performance
- Built-in survey mode - optimal long-term operation with instant spectrum analysis by recording charting frequency interruptions across the entire network from the initial unit installation
- Extended coverage - remote unit operability as a store & forward (S&F) data repeater to increase geographical coverage by up to 3 miles (5km) between every two units, and by a total of 43 miles (70km) with all repeaters
- Easy integration - versatility and easy connectivity (using Modbus protocol) to a wide range of

controllers making it a cost-efficient tool for future growth

- Energy efficient - low-power consumption design that typically is in sleep mode (reporting and controlling only when needed) to ensure extended battery life; units can be powered by rechargeable batteries and a solar cell
- Diagnostic reliability - embedded advanced features such as immediate assessment of a frequency failure and remote alerts and diagnostics in the event of service failure
- Secure communications protocol - increased data security operation with multiple layers of encryption and time-based data authentication
- Reliability in extreme conditions - remote unit temperature range of -13°F-185°F (-25°C-85°C)

TYPICAL INSTALLATION



ORDER DETAILS

SAP #	DESCRIPTION
74330-012000	R-NET HOST COMPLETE UNIT RS485/232
74330-012100	R-NET BASE STATION
74360-007600	R-NET CENTER UNIT (HOST+BASE+BATT+PS)
74330-012200	R-NET REMOTE UNIT RTU (1DO, 2DI)
74330-012195	R-NET RTU 2XDO 2XDI
74330-013140	R-NET EXPANSION CARD 2 X DO/2 X DI
74330-005120	R-NET MONOPOL.ANT.430-470 10M GROUND.486
74330-005020	R-NET MONOPOL.ANT.430-470 3M GROUNDED484
74330-005060	R-NET MONOPOL.ANT.430-470 6M GROUNDED485

SingleNet

2-WIRE CABLE VALVE COMMUNICATIONS CONTROL SYSTEM

OVERVIEW

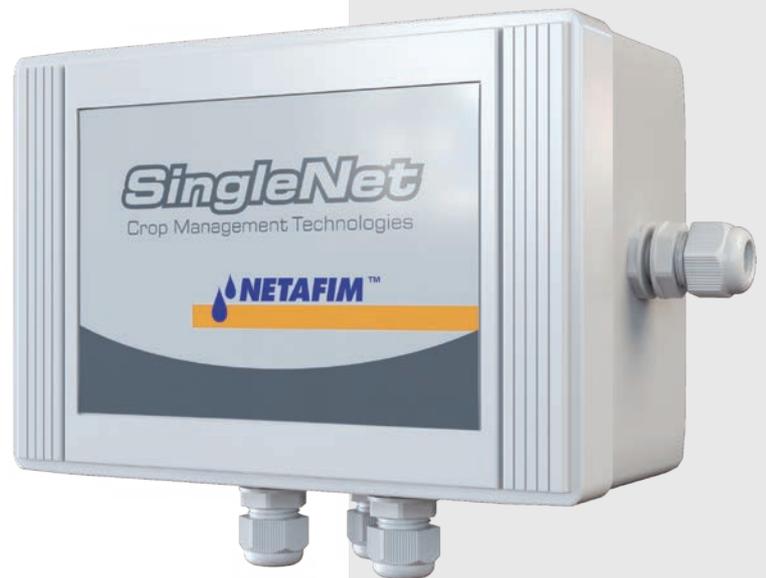
SingleNet is a 2-wire cable power and communications system. Easily operated and monitored over an RTU network, the SingleNet interface communicates with all controllers. Fast and simple to install, SingleNet is a reliable system that requires minimum maintenance ensuring long-term usage.

HIGHLIGHTS & BENEFITS

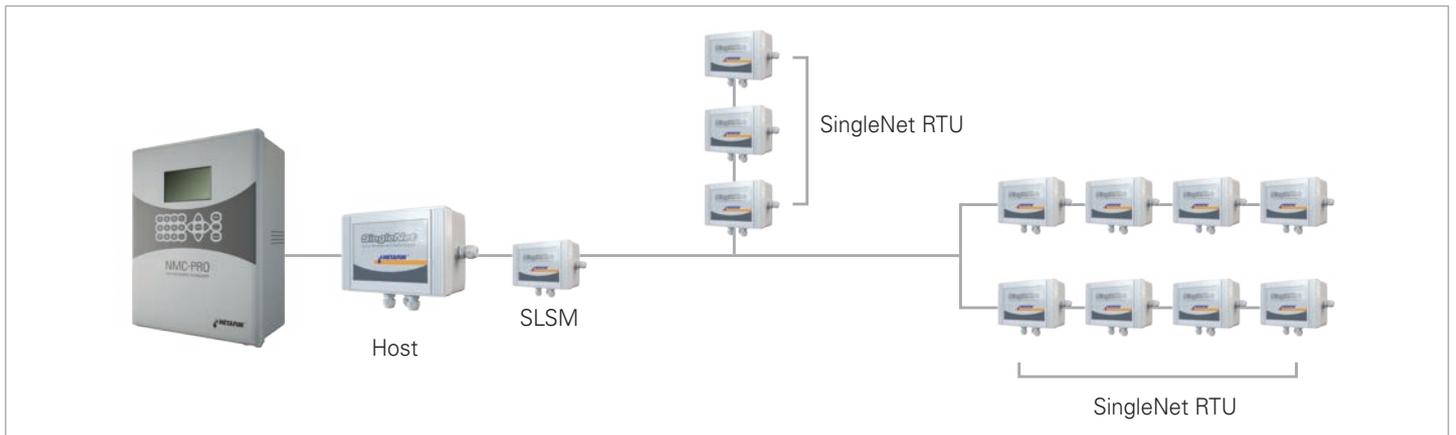
- Advanced control over valve operations
- Lower cable and installation costs
- Greater reliability and peace of mind

FEATURES & FUNCTIONALITY

- Powered by 12VDC
- Total cable length of up to 10km
- Control of up to 128 remote terminal units (RTUs)
- 2 digital outputs and inputs per RTU
- 2 digital water meter inputs per RTU
- Auto valve shutdown upon communication or power failure
- PC connection for easy setup and monitoring
- Optional plug-in lighting suppression module



TYPICAL INSTALLATION



ORDER DETAILS

SAP #	DESCRIPTION
00035-001750	SINGLETNET SERIAL INTERFACE UN.RS485/232
74340-001960	SINGLETNET HOST IN BRACKET FOR NMC PRO
74340-014900	SINGLETNET RTU 2 LATCH OUT & 2D.IN
74340-015000	SINGLETNET RTU 4 LATCH OUT & 4D.IN
74340-015100	SINGLETNET RTU 6 LATCH OUT & 6D. IN
74340-015400	SINGLETNET RTU 2 LATCH OUT & 2D. IN+PLSM
74340-015500	SINGLETNET RTU 4 LATCH OUT & 4D. IN+PLSM
74340-015600	SINGLETNET RTU 6 LATCH OUT & 6D. IN+PLSM
77100-005870	SINGLETNET CABLE 1X3X16 GAUGE PE ISOLATION
00035-008200	SINGLETNET PLSM LINE SUPPRESSION FOR RTU
00035-008300	SINGLETNET SLSM LINE SUPPRESSION MODULE
77100-005880	GROUND KIT FOR SINGLETNET PLSM

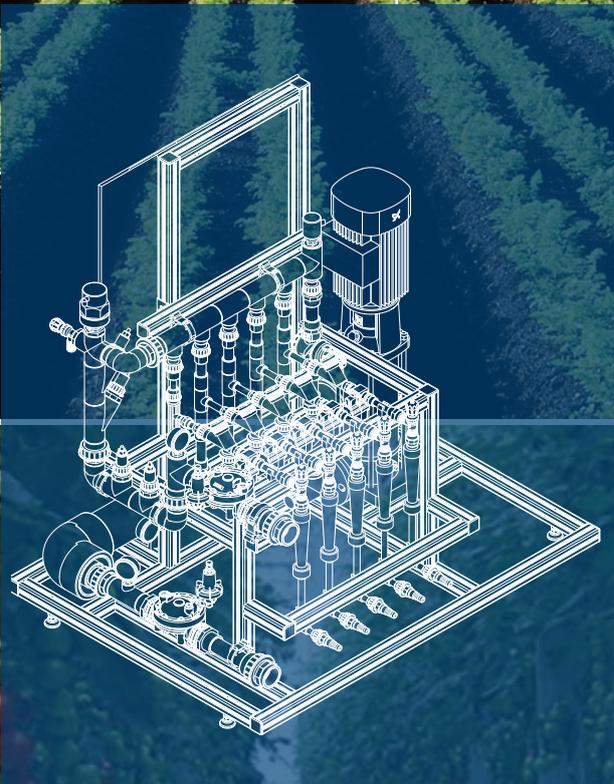
DOSING SYSTEMS

FOR MULTI-SIZED GREENHOUSE & OPEN-FIELD APPLICATIONS

Suitable for greenhouse and open-field applications, our advanced dosing systems integrate with Netafim's world-leading smart irrigation solutions to ensure the highest level of Nutrigation accuracy, while optimizing water, fertilizer and energy usage. Available in manual or automated versions, our systems are based on the Venturi principle and operate across a wide range of pressures. Robust and reliable, the systems address the specific needs of each plot and crop to create the best conditions for maximized and timely yields.

All of our dosing systems integrate with Netafim or third-party controllers. When linked to NMC Air, Netafim's advanced cloud-based software, the systems can be remotely accessed via the web or a mobile device, enabling farmers to operate and monitor their growing areas anytime, anywhere.





HIGHLIGHTS

- Covers greenhouse and open-field applications of all sizes
- Works with a wide range of pressures
- Offers perfect EC and pH control
- Integrates with Netafim or third-party controllers
- Operates in manual or automated fashion
- Lowers water, fertilizer and energy usage

PRODUCTS

Netafim offers two groups of dosing systems broken down by three applications.

OPEN FIELDS AND ORCHARDS

- FertiOne - single-channel injection system for electricity-fitted sites

NET HOUSES, OPEN FIELDS AND ORCHARDS

- FertiKit 3G - field-proven, fully configurable dosing system

GREENHOUSES

- NetaJet 4G - most advanced dosing system with the highest Nutrigation precision in minimum time
- NetaFlex 3G - homogeneous dosing system for soilless media applications

FertiOne

SINGLE-CHANNEL, COST-EFFECTIVE FERTILIZER INJECTION SOLUTION

OVERVIEW

FertiOne is a single-channel fertilizer injection solution for open-field sites fitted with electricity. The plug-and-play, fully configurable, and user-friendly FertiOne ensures high efficiency with minimal investment, making it an extremely cost-effective Nutrigation solution.

Built on a sturdy, corrosion-resistant aluminum frame, the system can accommodate different types of dosing channels and a range of single- or three-phase dosing boosters to suit the varied needs of sites. FertiOne is available as a basic manual system or equipped with several controller options, enabling either simple, straightforward operations or advanced quantitative or proportional control.

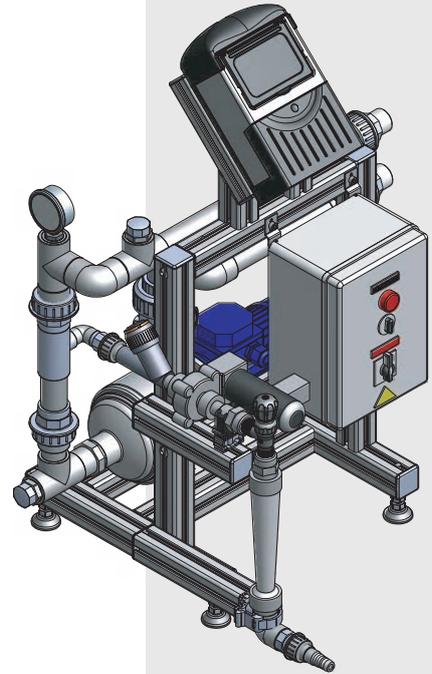
HIGHLIGHTS

- Modular Nutrigation system
- Standard platform
- Minimal required investment
- Efficient water, fertilizer and energy consumption
- Wide range of irrigated water capacities
- Quantitative or proportional Nutrigation capabilities
- Near maintenance-free Venturi operations - no moving parts
- Highly accurate dosing channel
- Manual or fully automated operations
- Easy integration into existing irrigation systems
- High-quality components and PVC piping
- Aluminum, corrosion-resistant frame with adjustable legs

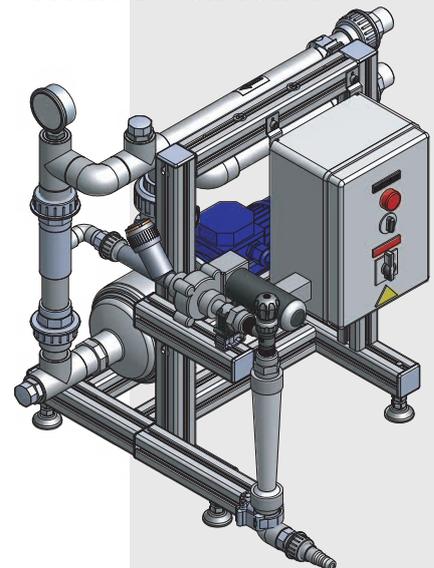
BENEFITS

- Easy installation and maintenance
- Broad application coverage, including open fields and orchards
- Highly profitable price/performance ratio
- Integrated with NMC and other controllers, as well as with a range of accessories and peripherals

With MiniAg controller



Without controller



DOSING CHANNEL OPTIONS

- Manual dosing channel



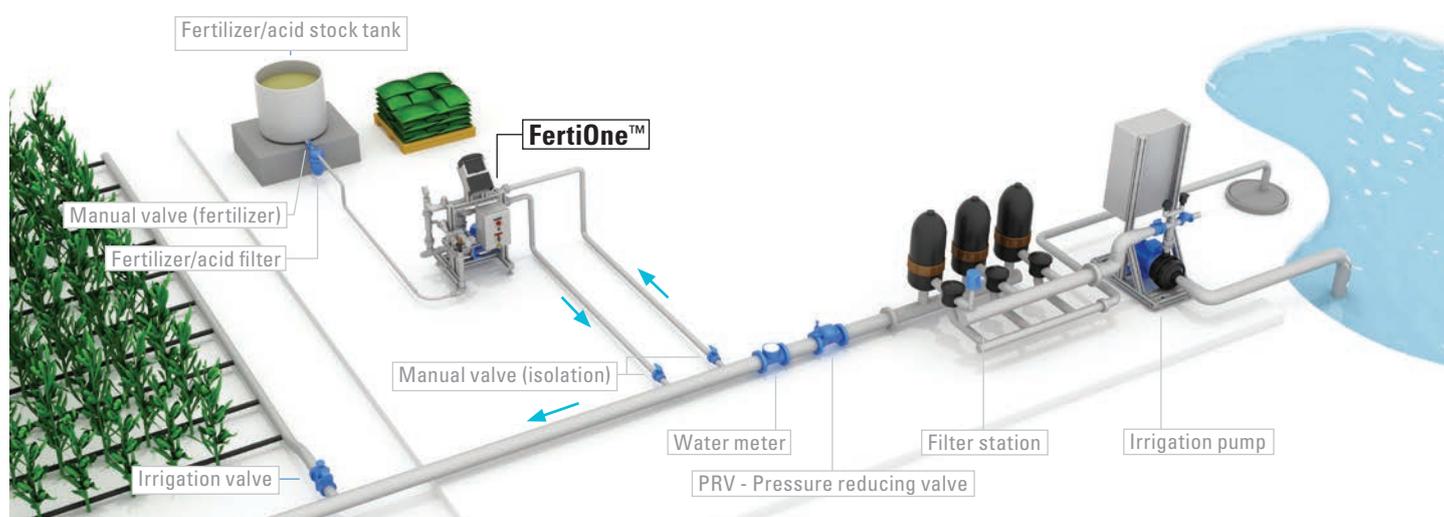
- Electric dosing channel



- Electric dosing channel with fertilizer meter



TYPICAL INSTALLATION



COMPONENTS

- Venturi-operated dosing channel
- Quick-action dosing valves
- Pressure gauge
- Controller (optional)
- Stainless steel dosing booster
- Dosing booster switchbox
- Check valve
- PVC piping
- Aluminum, corrosion-resistant frame with adjustable legs

CAPABILITIES

- Ensures an accurate mixture across a wide range of flow capacities
- Accommodates 0.1ha (nursery) to 400ha (plantation) plots

FEATURE	STANDARD	OPTIONAL
Controller	Manual (w/o controller)/NMC-Junior/MiniAg, according to customer need	Other controllers on the market
Suction Flow Rate	100 - 1,000 l/h (0.44 - 4.4 GPM)	
Dosing Channel	Manual/electric	Electric with fertilizer meter
System Pressure	2-7.5 bar (29-109 Psi), according to the selected dosing booster	

For more information, including user and installation manual, please login at: <https://www.netafim.com/product-category/single---channel-injection--manual>

NetaJet 4G

INDUSTRY'S MOST ADVANCED AND ACCURATE DOSING SYSTEM

OVERVIEW

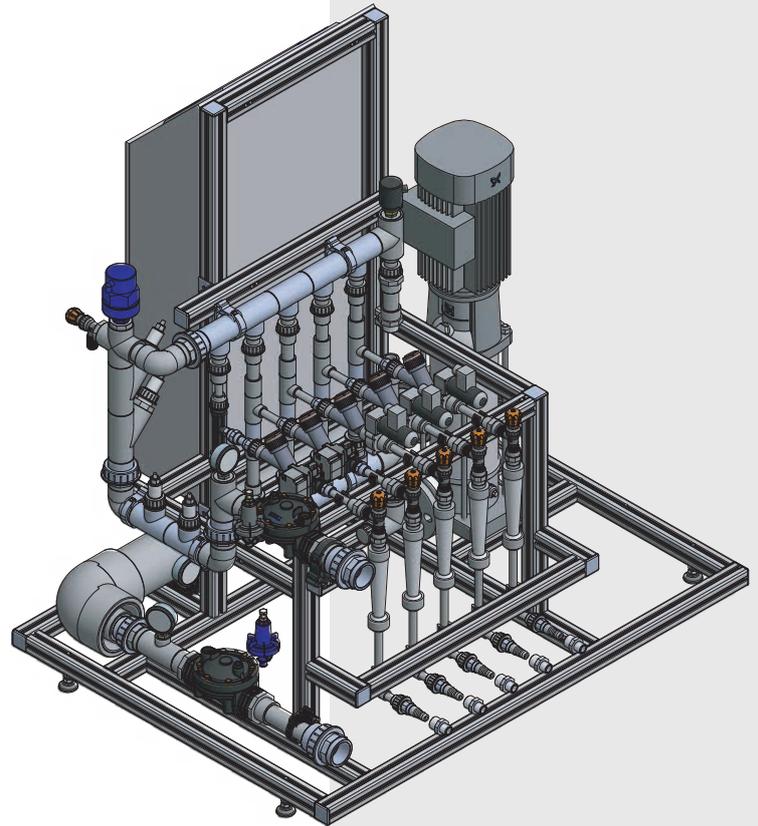
NetaJet 4G realizes Netafim's grow more with less concept. Based on Nutrigation technology, the dosing system controls the amount of water and fertilizer used, optimizing resource utilization for each specific land type and crop.

HIGHLIGHTS

- Extremely accurate and reliable, prevents water and fertilizer waste while reducing environmental pollution
- Ensures very precise and homogeneous nutrient dosing for greenhouse crops
- Modular CE-compliant dosing system that easily integrates with multiple Netafim and third-party monitoring and control systems
- Always injects a uniform quantity of nutrients while performing perfect EC and pH control
- Can accommodate a wide variety of dosing channels for fertilizer and concentrated/diluted acid
- Accommodates a variety of system pumps, peripherals and accessories to meet a vast range of applications and infrastructure constraints

BENEFITS

- Easy to install and maintain system
- In-house developed offering
- Versatile flow capacity
- Covers all applications from greenhouse in soil to very intensive soilless media
- Requires minimal investment with rapid ROI



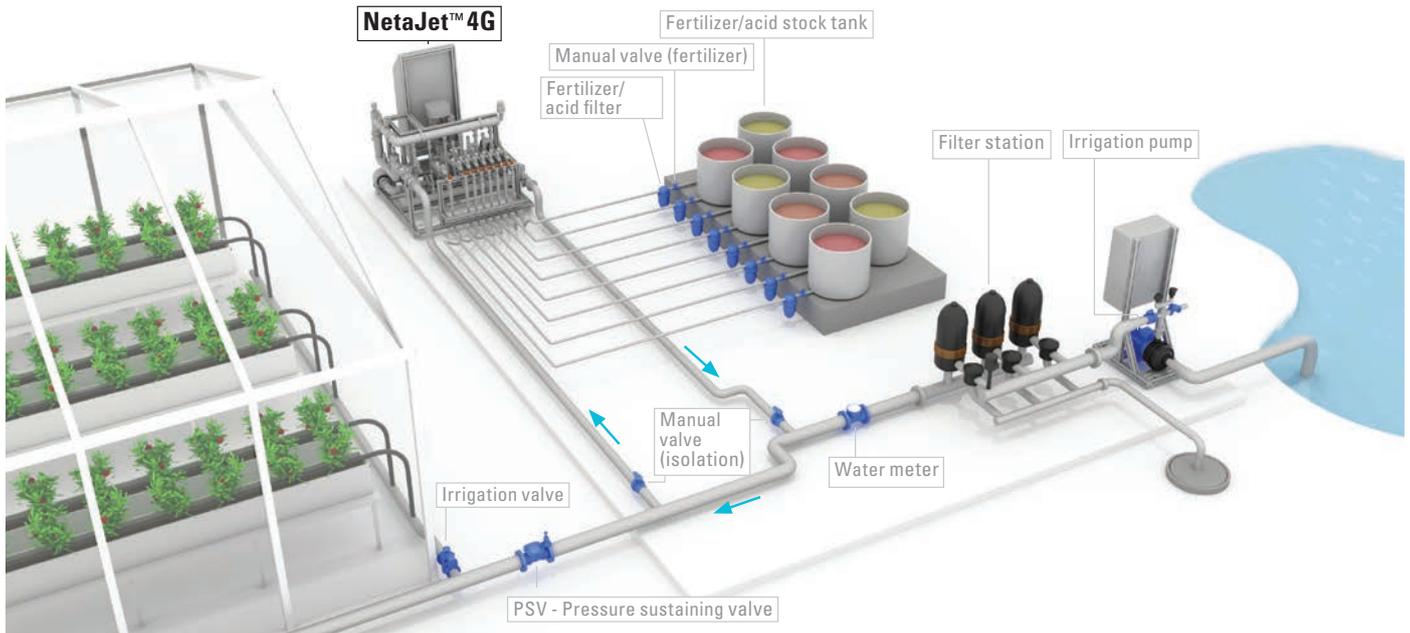
ADVANTAGES

- Equipped with unique innovative analog dosing channels for very accurate and reliable EC/pH control
- Provides fast and accurate fertilizer and acid control
- State-of-the-art technology with unique static mixing chamber
- Very short control cycle
- Efficient water, fertilizer and energy consumption
- Guaranteed EC and pH control
- Near maintenance-free Venturi operations - no moving parts
- Highly accurate dosing channels
- Fast and efficient Nutrigation recipe adjustments
- Multi-lingual capabilities
- Extensive experience with more than 1000 units sold around the globe
- Made by Netafim

FEATURES & FUNCTIONALITY

- High precision
- Smooth and stable hydraulic operation
- No fluctuations
- Fast EC/pH set-point reaching
- Short stabilization time
- Enables short Nutrigation cycles
- No risk of cavitation damage to the booster

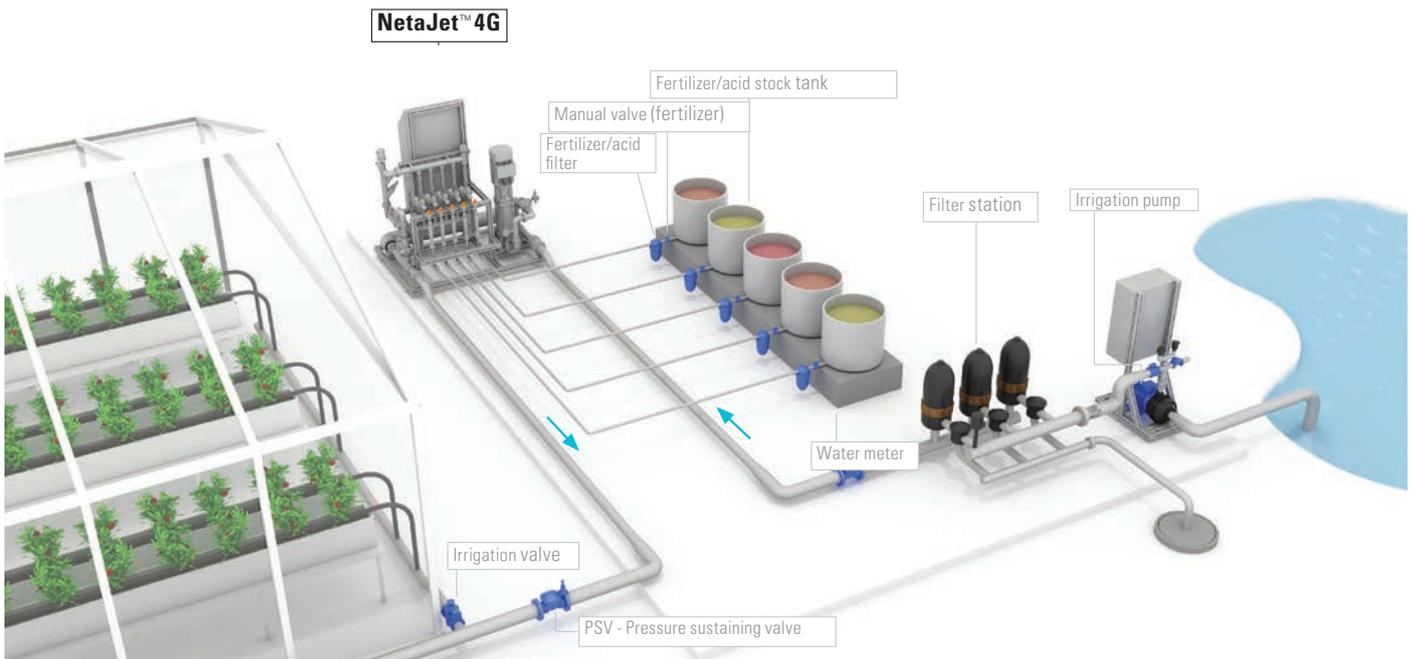
BP PL, OCTA, HIGH-FLOW MODES - BYPASS SYSTEMS FOR PRESSURIZED LINE WATER SOURCE



MODE	SUITABLE FOR MAIN LINE		DOSING CHANNELS
	FLOW RATE	PRESSURE RANGE	
BP PL	20 - 120 m ³ /h (90 - 500 GPM)	Standard: 2.5 - 5.8 bar (36.5 - 84.0 PSI)	Up to 5 x 50 - 600 l/hr (13 - 158 GPH)
Octa	80 - 400 m ³ /h (350 - 1760 GPM)		Up to 8 x 50 - 600 l/hr (13 - 158 GPH)
HF		High pressure: 5.8 - 7.5 bar (84.0 - 108.5 PSI)	Up to 5 x 50 - 1000 l/hr (13 - 265 GPH)

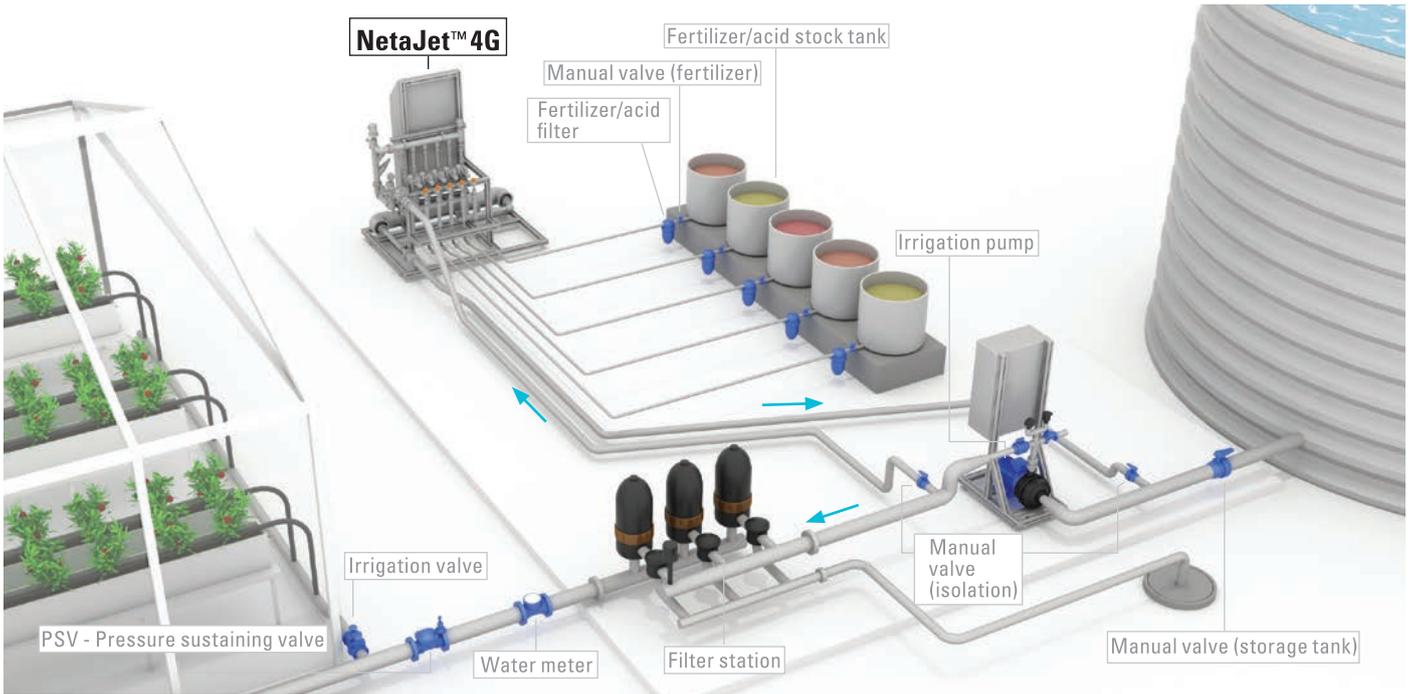
*Flow limitation depends on the fertilizer injection rate and the size of the Venturis.

IL PL MODE - INLINE SYSTEM FOR PRESSURIZED LINE WATER SOURCE



MODE	SUITABLE FOR MAIN LINE		DOSING CHANNELS
	FLOW RATE	PRESSURE RANGE	
IL PL	Up to 20 m ³ /h (90 GPM)	Standard: 2.5 - 5.8 bar (36.5 - 84.0 PSI) High pressure: 5.8 - 7.5 bar (84.0 - 108.5 PSI)	Up to 5 x 50 - 400 l/hr (13 - 105 GPH)

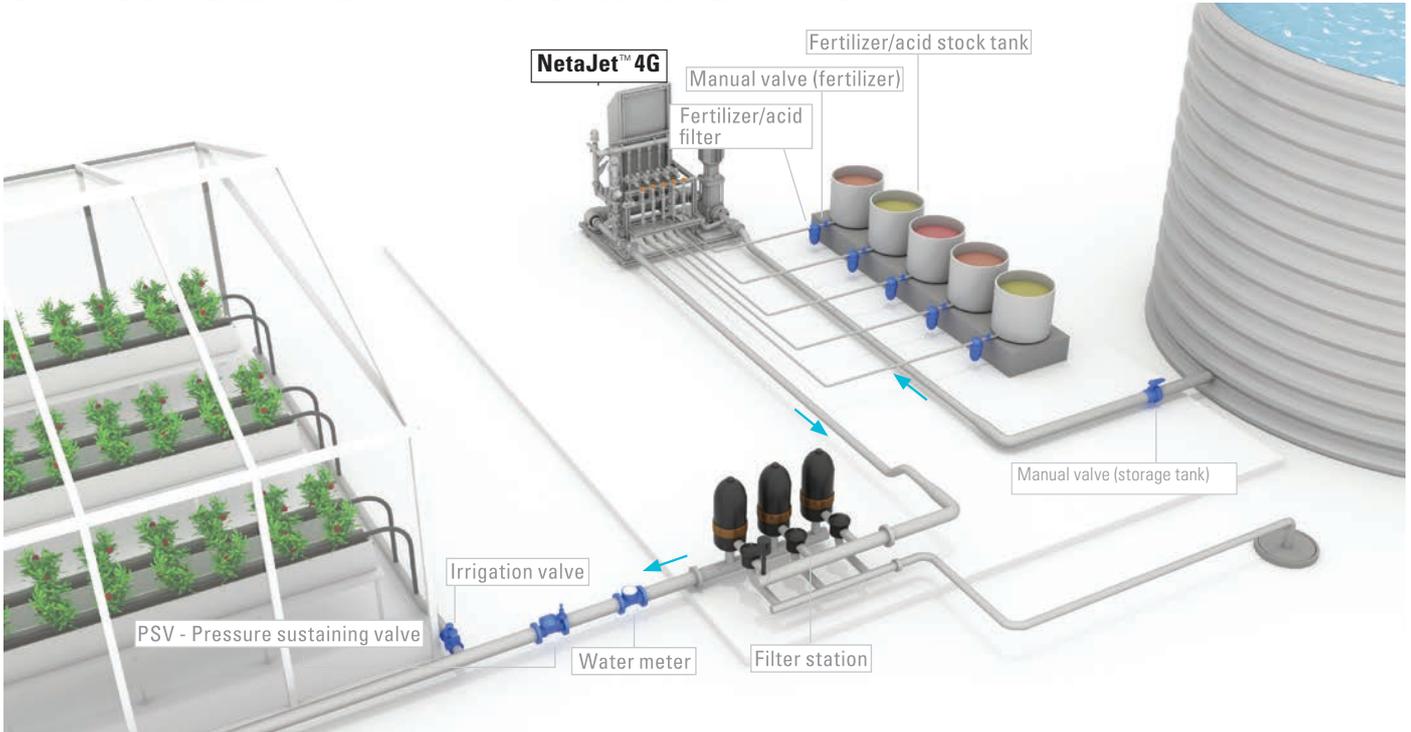
BP ST MODE - BYPASS SYSTEM FOR STORAGE TANK WATER SOURCE



MODE	SUITABLE FOR MAIN LINE		DOSING CHANNELS
	FLOW RATE	PRESSURE RANGE	
BP ST	15 - 100 m ³ /h (66 - 440 GPM)	Upstream from the pump: 0 - 0.5 bar (0 - 7.25 PSI)	Up to 5 x 50 - 600 l/hr (13 - 158 GPH)

*Flow limitation depends on the fertilizer injection rate and the size of the Venturis.

IL ST MODE - INLINE SYSTEM FOR STORAGE TANK WATER SOURCE



MODE	SUITABLE FOR MAIN LINE		DOSING CHANNELS
	FLOW RATE	PRESSURE RANGE	
IL ST	Up to 20 m ³ /h (90 GPM)	Upstream from the pump: 0 - 0.5 bar (0 - 7.25 PSI)	Up to 5 x 50 - 400 l/hr (13 - 105 GPH)

ANALOG DOSING CHANNEL

NetaJet 4G is the first fertilizer dosing system equipped with Netafim's unique innovative analog dosing channel, the long-time awaited solution for very accurate and reliable EC/pH control for Nutrigation of high-value greenhouse crops.

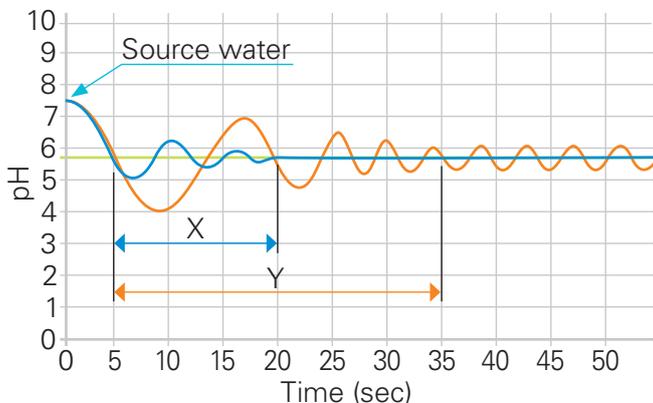
The analog dosing channel is equipped with a servo motor with a continuous variable opening from 0 to 100%. This unique feature allows unprecedented precise and seamless Nutrigation.

COMPONENTS

- HydroMix static mixing chamber
- Compensation channel with a pressure regulator
- Factory installed PRV at the inlet and a PSV at the outlet
- Selectable analog dosing channels
- Dual EC/pH monitoring and control
- Quick-action dosing valves
- Wide range of integrated accessories and peripherals
- High-quality components and PVC piping
- Aluminum, corrosion-resistant frame with adjustable legs

PERFORMANCE

DIGITAL (ON/OFF) VS. ANALOG DOSING CHANNEL



- Analog (continuous-variable) dosing channel
- Digital (pulsating) dosing channel
- pH set point

STABILIZATION TIME

- X = Analog (continuous-variable) dosing channel
- Y = Digital (pulsating) dosing channel

To select the suitable NetaJet for your project, see the online configurator at: <https://cmtconfig.netafim.com>.

For more information, including user and installation manual, please login at:

<https://www.netafim.com/product-category/multi---channel-injection-automated>



FertiKit 3G PL

COST-EFFECTIVE DOSING SYSTEM

OVERVIEW

FertiKit 3G is a fully-configurable, cost-effective fertilizer/acid dosing unit system that carries out precise Nutrigation. Operating in four modes depending on site conditions, FertiKit 3G optimizes the available water flow rate and pressure usage of the main irrigation line to ensure high efficiency at a low investment. Bringing together over a decade of technological know-how and experience, FertiKit 3G maintains a proven track record under the most stringent environmental conditions.

HIGHLIGHTS

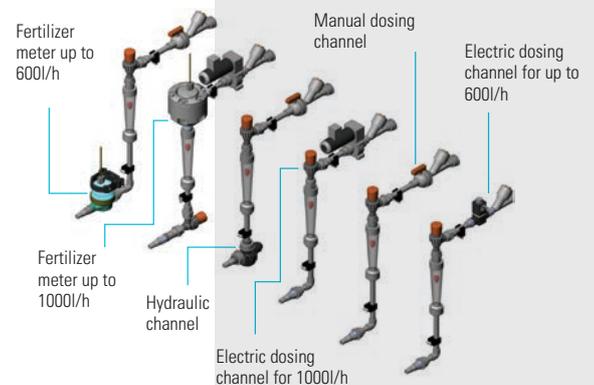
- Modular Nutrigation system
- Wide range of soil/substrate applications
- Built around a standard platform
- Minimal investment requirement
- Efficient water, fertilizer and energy consumption
- Unrivaled range of irrigation water capacities
- Quantitative or proportional Nutrigation capabilities
- Guaranteed EC and pH control
- Near maintenance-free Venturi operations - no moving parts
- Highly accurate dosing channels
- Fast and efficient Nutrigation recipe adjustments
- Manual or fully automated operations
- Easy integration into existing irrigation systems, Netafim's NMC, and third-party controllers

BENEFITS

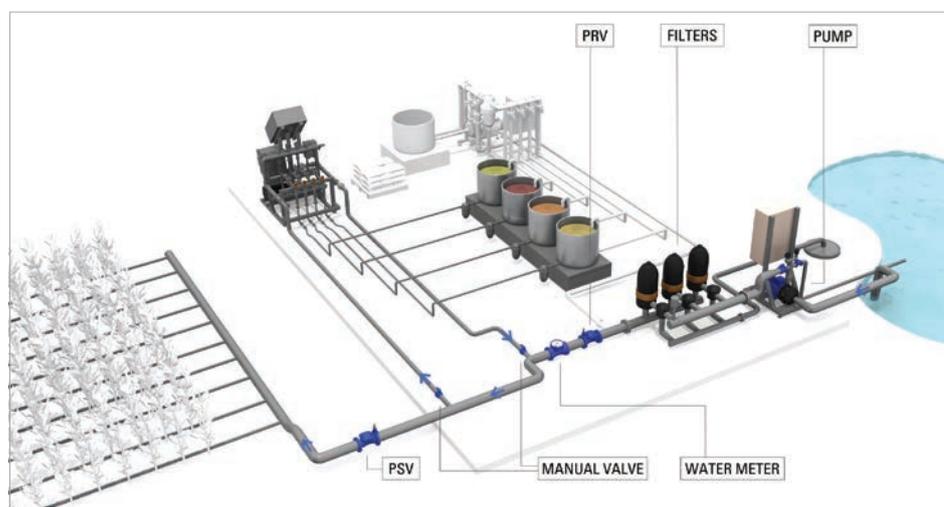
- Easy to install and maintain system
- In-house developed offering
- Broad application coverage, including open fields, orchards and others
- Highly profitable price/performance ratio



DOSING CHANNEL OPTIONS



TYPICAL INSTALLATION



COMPONENTS

- Quick-action dosing valves
- Wide range of integrated accessories and peripherals
- High-quality components and PVC piping
- Aluminum, corrosion-resistant frame with adjustable legs

CAPABILITIES

- Versatile flow capacity: from 0.1Ha (nursery) to 400Ha (suitable for sugarcane plantations, and all other field crops and orchards)
- Up to 6* highly accurate 50-1,000 l/hour (13-265 GPH) fertilizer/acid dosing channels

* For applications requiring over 6 dosing channels, please contact Netafim

FEATURES	STANDARD	OPTIONAL
Controller	NMC - PRO, NMC-XL, NMC-JUNIOR According to customer need	Other controllers in the market or manual system without controller
EC/pH Control	Single measurement	None
Flow Rate	20 - 700 m ³ /hour (85 - 3000 GPM)	
Dosing Channel	Up to 6 x 50-1000 l/hour (13-250 GPH)	Concentrated Acid channel x 50 l/hour (13 GPH)
System Pressure	2.5- 6.5 Bar (36 - 94 PSI)	Up to 9 Bar (130 PSI)

For more information, including user and installation manual, please log in at:
<http://www.netafim.com/product/fertikit-3g>

NetaFlex 3G

STATE-OF-THE-ART OPEN TANK MIXING SYSTEM

OVERVIEW

Featuring a state-of-the-art open tank mixing system, Netaflex 3G provides very high level of dosing precision and uniformity for greenhouses crops. A modular CE-compliant dosing system, NetaFlex 3G easily integrates with multiple Netafim and third-party controllers and monitoring systems. NetaFlex always injects a uniform quantity of nutrients and perfect EC and pH control.

HIGHLIGHTS

- Modular Nutrigation system
- Wide range of soil/substrate applications
- Built around a standard platform
- Minimal investment requirement
- Efficient water, fertilizer and energy consumption
- Very large range of irrigation water capacities
- Quantitative or proportional Nutrigation capabilities
- Guaranteed EC and pH control
- Near maintenance-free Venturi operations - no moving parts
- Highly accurate dosing channels
- Fast and efficient Nutrigation recipe adjustments
- Easy integration into existing irrigation systems, Netafim's NMC, and third-party controllers
- Multilingual system

BENEFITS

- Easy to install and maintain system
- In-house developed offering
- Covers all applications from greenhouse in soil to very intensive soilless media
- Requires minimal investment with rapid ROI

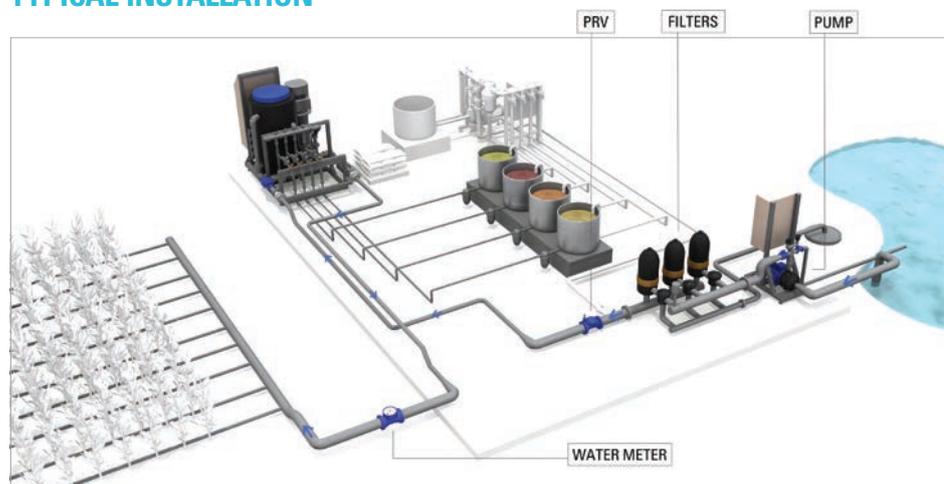


DOSING CHANNEL 50/60 HZ

Electric dosing channel
up to 600l/h



TYPICAL INSTALLATION



COMPONENTS

- Quick-action dosing valves
- Wide range of integrated accessories and peripherals
- High-quality components and PVC piping
- Aluminum, corrosion-resistant frame with adjustable legs

CAPABILITIES

- Versatile flow capacity: from 0.1Ha to 10Ha
- Up to 6* highly accurate 50-600 l/hr (13-156 gal/hr) fertilizer/acid dosing channels

* For applications requiring over 6 dosing channels, please contact Netafim

FEATURES	STANDARD	OPTIONAL
Controller	NMC - PRO According to customer need	Other controllers in the market
EC/pH Control	Single measurement	Dual measurement
Flow Rate	3-64 m ³ /hour (13 - 270 GPM)	
Dosing Channel	Up to 6 x 50-600 l/hour (13-156 GPH)	Concentrated Acid channel x 50 l/hour (13 GPH)
System Pressure	2.0- 4.5 Bar (29 - 65 PSI)	Up to 5.5 Bar (80 PSI)

For more information, including user and installation manual, please log in at:

<http://www.netafim.com/product-category/nutrigation->

DOSING SYSTEM SPARE PARTS

ORDER DETAILS

SAP #	DESCRIPTION
45000-006701	PH SENSOR JUMO 12MM PLASTIC BARED WIRES (For ABB)
45000-006705	EC SENSOR JUMO TEMPERAT COMP.PT100 12MM (For 4G and ABB)
45000-006692	PH SENSOR JUMO 12MM GLASS W/BNC CONNECT (For 4G)
70800-001785	BACCARA DOSING VALVE 1/2+EPDM 24VAC50Hz
70800-001790	BACCARA DOSING VALVE 1/2+EPDM 24VAC60Hz
70800-001780	BACCARA DOSING VALVE 1/2+VITON 24VAC60Hz
70800-001770	BACCARA DOSING VALVE 1/2+VITON 24VAC50Hz
77540-008500	DOSING VALVE FIP S22 24VAC 50/60HZ VITON
77540-008480	DOSING VALVE FIP S12 24VAC 50/60HZ VITON
77540-004150	Vacuum gauge
77540-003350	Pressure gauge - 250 GLZ 8 bar

For specific SAP number please contact our pres-sales support via Cmt.Support@netafim.com



CONTROLLER SPARE PARTS

ORDER DETAILS

SAP #	DESCRIPTION
74340-014550	NMC PRO CLIMATE-CPU CARD W/O SD CARD
74340-014600	NMC PRO IRRIGATION-CPU CARD W/O SD CARD
74340-012702	NMC PRO-CL EXPANSION CPU CARD
74340-003680	NMC COMMUN. LIGHTNING PROTECTOR CARD
74340-010000	NMC POWER LINE PROTECTOR CARD 115V
74340-003770	NMC POWER LINE PROTECTOR CARD 230V
74340-012800	NMC-PRO COMMUNIC. CARD 2XRS485 ADDITION.
74340-014650	NMC PRO SD CARD
74340-012700	NMCPRO EXPANSION CPU CARD
74340-008500	NMC PRO 24 V OUTPUT ADDITIONAL CARD
74340-008900	NMC PRO ANALOG INPUT ADDITIONAL CARD
74340-009100	NMC PRO COMMUNICATION RS232 CARD
74340-009200	NMC PRO COMMUNICATION RS485 CARD
74340-008800	NMC PRO DIGITAL INPUT ADDITIONAL CARD
74340-008600	NMC PRO DRY CONT.OUTPUT ADDITIONAL CARD
74340-007800	NMC-PRO INPUT / OUTPUT BUS CARD
74340-007900	NMC-PRO POWER SUPPLY CARD 115V
74340-008000	NMC-PRO POWER SUPPLY CARD 230V
74340-009300	NMC64/PRO 12VDC POWER SUPPLY CARD
74340-003300	NMC64/PRO/DC KEYBOARD CARD FOR LED LCD
74340-001950	NMCPRO EMPTY BRACK.F/SINGLETNET/RAD. CARD
74340-009485	NMC JUNIOR CPU CARD FOR LED
74340-004920	NMC LED DISPLAY
74340-004930	NMC LED DISPLAY 320*240 CN/KR
74340-004996	NMC-JUNIOR POWER SUPPLY CARD FOR 80W 230
74340-009490	NMC JUNIOR - INPUTS&OUTPUTS CARD
74340-014750	NMC JUNIOR DOUBLE DOOR EMPTY PLASTIC BOX
74340-014756	NMC JUNIOR EMPTY HIBOX+MOUNTING PLATE
74340-004973	NMC JUNIOR FLAT CABLE FOR DISPLAY CARD
74340-004972	NMC JUNIOR FLAT CABLE FOR IN/OUT CARD
74340-014755	NMC JUNIOR OLD EMPTY PLASTIC BOX
74340-004995	NMC JUNIOR POWER SUPPLY CARD 115VOLT
74340-004997	NMC JUNIOR POWER SUPPLY CARD 12VDC

SAP #	DESCRIPTION
74340-009400	NMC JUNIOR POWER SUPPLY CARD 230Volt
74340-006700	NMC JUNIOR RS485 COMMUNICATION CARD
74340-016560	NMC JUNIOR STICKER
74340-006600	NMC JUNIOR / 15 COMMUNICATION RS232 CARD
74340-022850	BRACKET FOR NMDCDC + BATTERY HOLDER
74340-022000	CPU CARD FOR NMDCDC W/O SD CARD
74340-022100	NMDCDC DIGITAL ANALOG INPUTS CARD
74340-022200	NMDCDC LATCH CARD
74340-022300	NMDCDC OUTPUT BUS CARD
74340-022400	NMDCDC POWER SUPPLY CARD
74340-022500	NMDCDC RS232 CARD
74340-009586	ONE ZONE LICENSE CARD
74340-009584	TWO ZONE LICENSE CARD
74340-009582	THREE ZONE LICENSE CARD
74340-009580	FOUR ZONE LICENSE CARD

For specific SAP number please contact our pres-sales support via Cmt.Support@netafim.com



CONTACT INFORMATION

For more product-related information, please contact: CMT.Product.Managment@netafim.com
For support issues, please contact your local dealer or service provider,
or Netafim CMT support at: CMT.Support@netafim.com